This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

LITTAUER LIBRARY
LI 2IM8 3

Digitized by Google

LITTAUER LIBRARY, SSP
HARVARD UNIVERSITY

~~Econ 8442.1~~

Harvard College Library

FROM

Michigan State Library

Complete Set Deposited
in Littauer Center
APR 9 1941

Digitized by Google

Digitized by Google

Digitized by Google

FORTY-SECOND ANNUAL REPORT

OF THE

SECRETARY OF STATE

ON THE

REGISTRATION

OF

BIRTHS AND DEATHS

MARRIAGES AND DIVORCES

IN

MICHIGAN

FOR THE YEAR 1908.

FREDERICK C. MARTINDALE

SECRETARY OF STATE

BY AUTHORITY

LANSING, MICHIGAN
WYNKOOP HALLENBECK CRAWFORD CO., STATE PRINTERS
1910

Digitized by Google

Harvard College Library
Feb. 6, 1912
Gift of
Michigan State Library

Complete Set Deposited
in Littauer Center
APR 9 1941

Digitized by Google

LETTER OF TRANSMITTAL.

STATE DEPARTMENT,
Lansing, Mich., April 1, 1910.

To His Excellency, Fred M. Warner, Governor:

Sir—I hereby transmit the Forty-second Annual Registration Report of Michigan, containing statistics of births and deaths, marriages and divorces in this State during the year 1908, as required by law.

Respectfully,

FREDERICK C. MARTINDALE,
Secretary of State.

Digitized by Google

Digitized by Google

CONTENTS.

(SEE also ALPHABETICAL INDEX, p. 177.)

TEXT AND SECONDARY TABLES.

Page

Letter of transmittal iii
Contents v

PART I.—VITAL STATISTICS AND POPULATION, 1908.

(Pages 1 to 11.)

Vital Statistics returned for 1908 1
Table 1—Vital Statistics of Michigan, by months, 1908 2
2—Marriages, births and deaths registered in Michigan for the years 1867–1908, with rates per 1,000 population (stillbirths included in births but not in deaths) 2
3—Persons married per 1,000 living population in certain countries and states during the years 1894–1908 3
4—Births registered per 1,000 living population in certain countries and states during the years 1894–1908 (stillbirths excluded) 4
5—Deaths registered per 1,000 living population in certain countries and states during the years 1894–1908 (stillbirths excluded) 5
6—Deaths, marriages, divorces and births in Michigan, by counties, for the year 1908 with rates per 1,000 estimated population 8
7—Deaths, marriages, divorces and births in Michigan, by counties, for the years 1907–1908, showing the increase (or decrease) of the number registered for 1908 as compared with that of the preceding year (stillbirths included in births but not in deaths) 10

PART II.—BIRTHS IN MICHIGAN DURING THE YEAR 1908.

(Pages 12 to 16.)

Summary of the enumeration of births for the year 1908 12
Table 8—Births in Michigan, by months and quarters, 1908 (stillbirths included) 13
9—Delayed returns of births, by months, 1908 (stillbirths included) 14
10—Births returned by months, for the years 1899–1908 inclusive, (stillbirths included) 14
11—Parent nativity of children born in Michigan during the year 1908 (stillbirths included) 15
12—Parent nativity of children born in Michigan for each of the years 1899–1908 inclusive, (stillbirths included) 15
13—Parent nativity of children born in Michigan during the years 1906–1908, compared with averages for seven quinquennial periods, 1871–1905 (stillbirths included) 16

PART III.—DEATHS AND CAUSES OF DEATH IN MICHIGAN DURING THE YEAR 1908.

SECTION I. INCIDENCE OF DEATHS IN MICHIGAN DURING THE YEAR 1908.

(Pages 17 to 23.)

Table 14—Deaths in Michigan, by months and quarters, 1908 (stillbirths excluded) 18
15—Delayed returns of deaths by months, 1908 (stillbirths excluded) 18
16—Deaths and death rates in Michigan, by sex, 1890–1908 (stillbirths excluded) 12
17—Deaths in Michigan by sex and age periods, 1908 (stillbirths excluded) 20
18—Deaths and death rates in Michigan by age periods and sex, 1908 (stillbirths excluded) 21
19—Cities of Michigan, grouped in order of population, by state census of 1904, with deaths and death rates per 1,000 estimated population, 1908 (stillbirths excluded) 23

Digitized by Google

SECTION II. CAUSES OF DEATH IN MICHIGAN DURING THE YEAR 1908.

(Pages 24 to 57.)

Page

Table 20—Deaths in Michigan during the year 1908, according to the detailed International Classification of Causes of Death, with rates per 100,000 estimated population 25
21—Causes of death in Michigan, by months and ages, for the state and geographical sections, 1908 28
22—Deaths from typhoid fever in Michigan, 1908 39
23—Deaths from smallpox in Michigan, 1908 40
24—Deaths from measles in Michigan, 1908 40
25—Deaths from scarlet fever in Michigan, 1908 41
26—Deaths from whooping cough in Michigan, 1908 42
27—Deaths from diphtheria and croup in Michigan, 1908 43
28—Deaths from influenza in Michigan, 1908 44
29—Deaths from tuberculosis of lungs in Michigan, 1908 44
30—Deaths from other forms of tuberculosis in Michigan, 1908 45
31—Deaths from cancer in Michigan, 1908 46
32—Deaths from meningitis in Michigan, 1908 47
33—Deaths from cerebral congestion and hemorrhage (apoplexy) in Michigan, 1908 48
34—Deaths from paralysis in Michigan, 1908 48
35—Deaths from convulsions in Michigan, 1908 49
36—Deaths from heart disease in Michigan, 1908 50
37—Deaths from bronchitis in Michigan, 1908 51
38—Deaths from bronchopneumonia in Michigan, 1908 51
39—Deaths from pneumonia in Michigan, 1908 52
40—Deaths from diseases of stomach in Michigan, 1908 54
41—Deaths from diarrhea and enteritis (under 2 years), in Michigan, 1908 54
42—Deaths from diarrhea and enteritis (over 2 years), in Michigan, 1908 55
43—Deaths from Bright's disease in Michigan, 1908 56
44—Deaths from suicide in Michigan, 1908 57
45—Deaths from accidents in Michigan, 1908 57

PART IV.—MARRIAGES IN MICHIGAN DURING THE YEAR 1908.

(Pages 58 to 62.)

Summary of the registration of marriages in Michigan, 1908 58
Table 46—Marriages returned, by months, for the years 1898-1908, with average for the ten year period 59
47—Marriages in Michigan, by months and quarters, 1908 60
48—By nativity, the number and per cent of brides and bridegrooms returned for the year 1908 60
49—Nativity of marriages in Michigan for the years 1906-1908, compared with averages for seven successive quinquennial periods, 1871-1905 61
50—Percentage of males married in Michigan at specified periods of age for the years 1906-1908, compared with the averages for seven quinquennial periods, 1871-1905 62
51—Percentage of females married in Michigan at specified periods of age for the years 1906-1908, compared with averages for seven quinquennial periods, 1871-1905 62

PART V.—DIVORCES IN MICHIGAN DURING THE YEAR 1908.

(Pages 63 to 65.)

Table 52—Children affected by divorces in Michigan during the year 1908, showing the relation of sex of complainant to size of family 63
53—Duration of marriages terminated by divorces granted in Michigan during the year 1908, showing the relation of sex of complainant to lapse of time before divorce 64
54—Principal causes of divorce in Michigan during the year 1908, showing by sex, the percentage of complainants from each cause 65

PRIMARY TABLES.

PRIMARY TABLES RELATING TO BIRTHS IN MICHIGAN DURING THE YEAR 1908.

(Pages 66 to 80.)

Table I—Births in Michigan, by months, counties and sex during the year 1908 (stillbirths included) 69
II—Births in Michigan, by nativity of parents, counties and sex during the year 1908 (stillbirths included) 74
III—Stillbirths, twins and illegitimate births in Michigan, by counties during the year 1908 79
IV—Stillbirths, twins and illegitimate births in Michigan, by months and sex during the year 1908 80

Digitized by Google

PRIMARY TABLES RELATING TO DEATHS AND CAUSES OF DEATH IN MICHIGAN DURING THE YEAR 1908.

(Pages 81 to 137.)

Page

Table I—Deaths in Michigan by months, counties and sex, during the year 1908 (stillbirths excluded) 83
II—Deaths in Michigan by ages, counties and sex, during the year 1908 (stillbirths excluded) 88
III—Causes of death in Michigan, by months, ages and sex, during the year 1908 (stillbirths excluded.) 98
IV—Causes of death in Michigan, by counties, during the year 1908 (stillbirths excluded) 116

PRIMARY TABLES RELATING TO MARRIAGES IN MICHIGAN DURING THE YEAR 1908.

(Pages 139 to 151.)

Table I—Marriages in Michigan by months and counties, during the year 1908 141
II—Persons married in Michigan, by ages, counties and sex, during the year 1908 143
III—Marriages and persons married in Michigan by nativity and counties, during the year 1908 148
IV—Marriages in Michigan, by age periods, during the year 1908 150
V—Probate marriages in Michigan, by ages of males and females married, during the year 1908 151

PRIMARY TABLES RELATING TO DIVORCES AND CAUSES OF DIVORCE IN MICHIGAN DURING THE YEAR 1908.

(Pages 153 to 173.)

Table I—Divorce business in Michigan, by counties, during the year 1908, showing, according to the "Summaries" filed by county clerks, the number of bills for divorce pending at the beginning and end of the year, number filed during the year, number withdrawn or otherwise disposed of, number contested, and the number of divorces granted and refused 156
II—Divorces in Michigan, by counties and sex of complainant, during the year 1908 showing place of marriage, number of children in family, and duration of marriage before divorce 158
III—Causes of divorce in Michigan, by sex of complainant, during the year 1908, showing place of marriage, number of children in family, and duration of marriage before divorce 168
INDEX 177

Digitized by Google

Digitized by Google

FORTY-SECOND ANNUAL

REGISTRATION REPORT OF MICHIGAN

CONTAINING VITAL STATISTICS FOR THE YEAR 1908.

PART I.—VITAL STATISTICS AND POPULATION.

This part of the report is intended to give a general idea of the results of registration during the year 1908, and to serve as an introduction to the more detailed study of the statistics in the divisions following.

VITAL STATISTICS RETURNED FOR 1908.

The principal facts in regard to the returns of vital statistics for the year 1908 may be seen in the following summary:

Total number of births, 1908	64,772
Births per 1,000 estimated population, 1908	24.5
Total number of deaths, 1908	36,671
Deaths per 1,000 estimated population, 1908	13.9
Total number of marriages, 1908	25,765
Persons married, 1908	51,530
Persons married per 1,000 estimated population, 1908	19.5
Total number of divorces, 1908	3,020
Persons divorced, 1908	6,040
Persons divorced per 1,000 estimated population, 1908	1.1

RETURNS BY MONTHS.

The distribution of the returns by months during the year 1908 may be seen in Table 1. The average daily number of deaths, marriages and births are also given for the year and months. This average enables comparisons to be made of the rates of mortality, nuptiality and natality between the several months with as much accuracy as by the computation of rates. It will be noted that the month of greatest daily mortality was March and the month of least daily mortality was June. The maximum number of marriages per day was in the month of June, and the least number in March. The highest daily number of births was in March, and the least daily number in November.

Digitized by Google

Table 1.—Births, marriages and deaths in Michigan by months, 1908.

	Total number registered, 1908.	Returns by months, 1908.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
Deaths*.														
Number.....	36,761	3,162	3,336	3,462	3,254	2,972	2,572	2,710	3,113	3,375	3,323	2,823	2,659	....
Daily average..	100.7	102.0	115.0	111.7	108.5	95.9	85.7	87.4	100.4	112.5	107.2	94.1	85.8	....
Marriages:														
Number.....	25,765	1,702	1,591	1,608	1,830	1,780	3,242	1,995	2,254	2,692	2,390	2,499	2,179	3
Daily average..	70.6	54.9	56.8	51.9	61.0	57.4	108.1	64.4	72.7	89.7	77.1	83.3	70.3	....
Births.†														
Number.....	64,772	5,085	5,156	6,125	5,769	5,925	5,385	5,559	5,722	5,334	5,144	4,705	4,863	....
Daily average..	177.5	164.0	184.1	197.6	192.3	191.1	179.5	179.3	184.6	177.8	165.9	156.8	156.9	....

*Stillbirthse xcluded. †Stillbirths included.

Table 2.—Marriages, births and deaths registered in Michigan for the years 1867-1907 with rates per 1,000 population. (Stillbirths included in births but not in deaths).

Years.	Population.	Registration returns, 1867-1907.			Rates per 1,000 population.		
		Number of marriages.	Number of births.*	Number of deaths.†	Persons married.	Births.*	Deaths.†
1867‡	993,902	4,312	14,000	4,409	.....	.....	.....
1868	1,057,288	8,697	25,020	8,189	16.5	23.7	7.7
1869	1,120,673	8,459	27,093	9,016	15.1	24.2	8.9
1870§	1,184,059	9,791	26,663	10,640	16.5	22.5	8.9
1871	1,221,552	10,605	25,992	9,460	17.4	21.3	7.7
1872	1,259,045	10,752	27,993	13,167	17.1	22.2	10.5
1873	1,296,538	11,897	34,608	13,984	18.4	26.7	18.0
1874§	1,334,031	12,255	31,151	12,036	18.4	23.4	9.0
1875	1,384,515	11,851	31,958	11,361	17.1	23.1	8.2
1876	1,435,000	11,913	34,235	11,930	16.6	23.9	8.3
1877	1,485,484	11,899	33,395	12,199	16.0	22.5	8.2
1878	1,535,968	12,880	35,162	11,973	16.8	22.9	7.7
1879	1,586,453	13,892	34,122	13,658	17.5	21.5	8.6
1880§	1,636,937	14,935	35,323	15,364	18.2	21.6	9.4
1881	1,691,117	15,894	34,749	18,547	18.8	20.5	11.0
1882	1,745,298	16,830	37,026	15,633	19.3	21.2	9.0
1883	1,799,478	17,174	40,809	16,022	19.1	22.7	8.9
1884§	1,853,658	15,989	40,408	17,157	17.3	21.8	9.2
1885	1,893,697	15,885	42,119	15,638	16.8	22.2	8.3
1886	1,933,735	16,665	41,095	17,278	17.2	21.3	8.9
1887	1,973,774	17,179	46,226	18,585	17.4	23.4	9.4
1888	2,013,812	17,297	48,952	20,406	17.2	24.3	10.1
1889	2,053,851	18,317	49,272	19,113	17.8	24.0	9.3
1890§	2,093,889	18,664	52,306	20,245	17.8	25.0	9.7
1891	2,130,827	19,244	50,812	20,989	18.1	23.8	9.9
1892	2,167,765	20,107	46,221	20,715	18.6	21.3	9.6
1893	2,204,703	19,197	47,772	20,963	17.4	21.6	9.5
1894§	2,241,641	18,220	44,596	19,957	16.3	19.9	8.9
1895	2,271,581	18,952	46,273	21,648	16.7	20.4	9.5
1896	2,301,421	18,897	46,302	20,729	16.4	20.1	9.0
1897	2,331,311	18,579	43,688	19,150	15.9	18.7	8.2
1898	2,361,201	20,138	43,462	28,284	17.1	18.4	12.0
1899	2,391,091	21,877	41,818	32,500	18.3	17.5	13.6
1900§	2,420,982	23,295	43,699	32,599	19.2	18.1	13.4
1901	2,450,872	24,079	43,221	32,834	19.6	17.6	13.4
1902	2,475,499	25,653	45,546	31,472	20.7	18.4	12.7
1903	2,502,758	26,029	46,020	33,176	20.8	18.4	13.3
1904§	2,530,016	24,918	47,085	34,494	19.7	18.6	13.6
1905	2,557,275	26,307	46,976	34,679	20.6	18.4	13.6
1906	2,584,533	27,519	58,599	37,033	21.3	22.7	14.3
1907	2,611,792	27,940	59,029	36,701	21.4	22.6	14.1
1908	2,639,050	25,765	64,772	36,761	19.5	24.5	13.9

*Stillbirths included in births. For the years 1867-1873 and 1898-1908, only those returned as births are so included.
†Stillbirths not included. ‡From April 5 to December 31, 1867. §Census years.

Digitized by Google

COMPARISON OF 1908 WITH PREVIOUS YEARS OF REGISTRATION.

The vital statistics for the year 1908 may be compared with the returns for the preceding years of registration by means of Table 2. In this table estimated populations are presented for the intercensal and postcensal years, by whose aid the death rates, marriage rates and birth rates may be computed for each year, and thus fairly accurate comparisons be made of the data with allowance for the increase of population of the State.

According to the returns the number of marriages recorded in 1908, 25,765, was less than the number returned for the year immediately preceding, and in fact is smaller than the number returned for any one year since 1904. The marriage rate for the year was 19.5 per 1,000 estimated population, that for the preceding year being 21.4.

Table 3.—Persons married per 1,000 living population in certain countries and states during the years 1894-1908.

Country or state.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Austria	15.9	16.2	15.9	16.2	15.7	16.6	16.5	16.3	15.5	15.6	15.5	15.6	15.8	15.0	(1)
Belgium	15.0	15.5	16.2	16.5	16.6	16.5	17.2	17.4	16.2	15.7	16.0	15.8	16.1	16.0	(1)
Denmark	14.0	14.2	14.6	15.0	15.1	15.0	15.2	14.3	14.2	14.2	14.3	14.3	14.9	15.3	14.8
France	14.9	14.7	15.1	15.1	14.8	15.3	15.5	15.6	15.1	15.1	15.2	15.4	15.6	16.0	16.1
German Empire	15.9	15.9	16.4	16.7	16.9	17.1	17.0	15.9	15.9	15.8	16.1	16.1	16.3	16.3	(1)
Prussia	16.1	16.0	16.5	16.8	16.9	17.0	17.1	16.6	16.0	15.9	16.2	16.2	16.4	16.4	16.1
Holland	14.4	14.8	15.0	14.8	14.6	14.8	15.2	15.4	15.2	14.9	14.7	14.6	14.9	15.0	14.4
Hungary	18.6	17.0	16.2	16.4	16.8	18.2	17.8	17.6	17.2	16.2	18.2	16.8	17.4	19.6	18.2
Italy	14.9	14.6	14.1	14.4	13.8	14.7	14.4	14.5	14.5	14.4	15.0	15.3	15.5	15.4	16 6
Japan	17.3	17.3	23.5	16.9	21.5	13.4	15.4	16.6	17.1	15.9	16.9	14.7	14.6	17.7	(1)
New South Wales	12.5	12.8	13.4	13.7	13.5	13.9	14.8	15.4	15.0	13.7	14.4	14.8	15.3	15.7	15.9
New Zealand	12.3	11.9	13.7	13.7	13.8	14.6	15.3	15.7	16.0	16.5	16.5	16.6	17.0	18.0	18.0
Norway	12.7	12.9	13.3	13.4	14.0	14.2	13.8	13.2	12.8	12.0	11.9	11.6	11.8	12.1	12.2
Russia (European)	18.8	18.4	17.4	18.2	17.4	18.4	17.6	17.2	17.2	17.8	.....	.....	.....	.....	(1)
Sweden	11.5	11.7	11.9	12.1	12.3	12.5	12.3	12.1	11.9	11.6	11.7	11.7	12.3	12.4	12.2
Switzerland	14.4	14.6	15.1	15.7	15.6	15.6	15.5	15.2	14.9	14.9	14.9	15.2	15.6	15.6	(1)
United Kingdom	14.2	14.3	15.0	15.2	15.4	15.6	15.1	15.1	15.1	14.9	14.6	14.6	14.9	15.1	14.3
England and Wales	15.0	15.0	15.7	16.0	16.2	16.5	16.0	15.9	15.9	15.6	15.2	15.3	15.6	15.8	14.9
Ireland	9.4	10.1	10.2	10.1	10.0	9.9	9.5	10.2	10.4	10.4	10.4	10.5	10.3	10.3	10.4
Scotland	13.3	13.5	14.2	14.4	14.8	15.0	14.6	14.0	14.1	14.1	13.9	13.4	14.0	13.9	13.1
United States:															
Massachusetts	16.9	18.5	18.1	17.6	16.5	17.2	17.4	17.5	17.8	18.4	17.6	18.1	19.5	20.1	(1)
Michigan	16.3	16.7	16.4	15.9	17.1	18.3	19.2	19.6	20.7	20.8	19.7	20.6	21.3	21.4	19.5
Rhode Island	17.4	18.2	17.0	15.6	15.8	16.2	18.4	17.6	18.5	19.2	17.8	18.1	20.9	.....	(1)

(1) No figures available.
NOTE.—Data for foreign countries taken from International Tables of the English Registrar-General's Report.

Digitized by Google

The number of births for the year, 64,772, exceeded the number returned for 1907 by 5,743, and the number returned for the year 1906, by 6,173. As the new law for the immediate registration of births went into effect on January 1, 1906, comparison of the returns since that date with previous years of registration cannot be made with any degree of reliability.

The total number of deaths returned to the Department of State for the year 1908 was 36,761, which corresponds to an annual death rate of 13.9 per 1,000 estimated population. The number returned for 1908 only exceeds the number returned for 1907 by 60.

Table 4.—Births registered per 1,000 living population in certain countries and states during the years 1894-1908. (Stillbirths excluded).

Country or state.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Austria	36.8	38.1	38.0	37.5	36.3	37.3	37.3	36.6	37.0	35.2	35.5	33.7	34.9	33.8	(1)
Belgium	29.0	28.5	29.0	29.0	28.6	28.8	28.9	29.4	28.4	27.5	27.1	26.1	25.7	25.3	(1)
Denmark	30.4	30.3	30.5	29.8	30.2	29.7	29.7	29.7	29.2	28.7	28.9	28.4	29.5	28.3	28.3
France	22.3	21.7	22.5	22.2	21.8	21.9	21.4	22.0	21.7	21.1	20.9	20.6	20.6	19.7	20.2
German Empire	35.9	36.1	36.3	36.0	36.1	35.8	35.6	35.7	35.1	33.9	34.1	33.0	33.1	32.3	(1)
Prussia	36.6	36.9	36.9	36.5	36.7	36.3	36.1	36.2	35.5	34.4	34.7	33.5	33.7	33.0	32.8
Holland	32.7	32.8	32.7	32.5	31.9	32.0	31.5	32.3	31.8	31.6	31.4	30.8	30.4	30.0	29.7
Hungary	41.5	41.8	40.5	40.3	37.7	39.3	39.3	37.8	38.8	36.7	37.0	35.7	36.0	36.0	36.3
Italy	35.5	34.9	34.8	34.7	33.5	33.9	33.0	32.6	33.4	31.7	32.8	32.5	31.9	31.5	33.4
Japan	28.9	29.5	30.0	30.9	31.3	31.4	31.7	32.7	32.9	32.0	30.6	30.6	28.9	33.0	(1)
New South Wales	31.7	31.0	28.7	28.9	27.6	27.3	27.4	27.7	27.1	25.3	26.7	26.7	27.0	27.1	26.8
New Zealand	27.3	26.8	26.3	26.0	25.7	25.1	25.6	26.3	25.9	26.6	26.9	27.2	27.1	27.3	27.4
Norway	29.6	30.5	30.2	29.9	30.1	30.7	29.9	29.6	29.0	28.8	28.1	27.4	26.7	26.3	26.2
Russia (European)	48.7	49.4	49.7	49.5	48.7	49.0	49.4	47.9	49.1	48.1	.....	.....	.....	.....	(1)
Sweden	27.1	27.5	27.2	26.7	27.1	26.4	27.0	27.0	26.5	25.7	25.8	25.7	25.7	25.5	25.7
Switzerland	27.3	27.3	28.1	28.3	28.5	29.0	28.6	29.1	28.7	27.7	27.7	27.4	27.4	26.8	(1)
United Kingdom	28.8	29.4	29.0	28.9	28.7	28.5	28.2	28.0	28.0	27.9	27.5	26.9	26.8	26.0	26.3
England and Wales	29.6	30.3	29.6	29.6	29.3	29.1	28.7	28.5	28.5	28.4	27.9	27.2	27.1	26.3	26.5
Ireland	23.0	23.3	23.7	23.5	23.3	23.1	22.7	22.7	23.0	23.1	23.6	23.4	23.6	23.2	23.3
Scotland	29.9	30.0	30.4	30.0	30.1	29.8	29.6	29.5	29.2	29.2	28.7	28.1	27.9	27.0	27.2
United States	.....	.....	.....	.....	.....	.....	27.2	.....	.....	.....	.....	.....	.....	.....	(1)
Connecticut	24.9	24.4	24.9	23.3	23.5	22.6	22.6	22.3	22.5	22.7	23.4	23.5	24.4	25.3	(1)
Massachusetts	27.4	27.0	28.3	28.0	27.3	25.7	26.2	25.3	25.1	25.2	25.3	25.0	26.4	27.5	(1)
Michigan	19.4	19.9	19.6	18.3	18.2	17.2	17.8	17.5	18.4	18.4	18.6	18.4	22.7	22.6	24.5
New Jersey	21.3	19.0	18.2	17.9	18.0	15.9	17.1	18.1	17.8	18.5	18.8	18.5	19.4	.....	(1)
Rhode Island	26.6	25.7	27.3	26.8	25.9	25.6	25.9	25.8	25.1	25.3	25.8	25.9	25.9	26.3	(1)

(1) No figures available.
NOTE.—Data for foreign countries taken from International Tables of the English-Registrar-General's Report.

Digitized by Google

Table 5.—Deaths registered per 1,000 living population in certain countries and states during the years 1894-1908. (Stillbirths excluded).

Country or state.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
Austria	27.9	27.6	26.3	25.6	24.9	25.6	25.3	24.0	24.7	23.8	23.7	25.0	22.4	22.6	(1)
Belgium	18.6	19.5	17.5	17.2	17.6	18.8	19.3	17.2	17.3	17.0	16.9	16.5	16.4	15.7	(1)
Denmark	17.6	16.9	15.7	16.6	15.5	17.3	16.8	15.8	14.6	14.7	14.1	15.0	13.5	14.2	14.5
France	21.2	22.2	20.0	19.4	20.9	21.1	21.9	20.1	19.5	19.2	19.4	19.6	19.9	20.2	19.0
German Empire	22.3	22.1	20.8	21.3	20.5	21.5	22.1	20.7	19.5	20.0	19.6	19.8	18.2	18.0	(1)
Prussia	21.8	21.8	20.7	20.9	20.0	21.4	21.8	20.5	19.2	19.7	19.2	19.6	17.9	17.8	17.9
Holland	18.5	18.6	17.2	16.9	17.0	17.1	17.8	17.2	16.3	15.6	15.9	15.3	14.8	14.6	15.3
Hungary	30.5	29.7	28.9	28.5	28.0	27.2	26.9	25.4	27.0	26.1	24.8	27.8	24.8	25.2	24.8
Italy	25.0	25.0	24.1	21.9	22.9	21.9	23.8	22.0	22.2	22.4	21.1	21.9	20.8	20.7	22.6
Japan	20.1	20.2	21.4	20.3	20.4	21.1	20.4	20.4	20.9	20.0	21.2	22.0	19.8	20.9	(1)
New South Wales	12.4	11.9	12.5	11.0	12.7	11.9	11.2	11.7	11.9	11.6	10.6	10.1	9.9	10.6	10.1
New Zealand	10.2	9.9	9.1	9.1	9.8	10.2	9.4	9.8	10.5	10.4	9.5	9.3	9.3	10.9	9.5
Norway	16.8	15.5	15.1	15.3	15.3	16.7	15.8	14.9	13.8	14.8	14.3	14.8	13.6	14.2	14.3
Russia (European)	34.0	35.0	32.8	31.4	33.2	31.0	31.1	32.1	31.5	(1)	(1)	(1)	(1)	(1)	(1)
Sweden	16.4	15.2	15.6	15.4	15.1	17.7	16.8	16.1	15.4	15.1	15.3	15.6	14.4	14.6	14.9
Switzerland	20.1	19.2	17.8	17.7	18.3	17.7	19.3	18.0	17.2	17.6	17.8	17.9	17.0	16.8	(1)
United Kingdom	16.8	18.7	16.9	17.6	17.7	18.2	18.4	17.1	16.5	15.8	16.5	15.5	15.6	15.4	15.1
England and Wales	16.6	18.7	17.1	17.4	17.5	18.2	18.2	16.9	16.2	15.4	16.2	15.2	15.4	15.0	14.7
Ireland	18.2	18.5	16.7	18.5	18.2	17.7	19.6	17.8	17.5	17.5	18.1	17.1	17.0	17.7	17.6
Scotland	17.1	19.4	16.6	18.4	18.0	18.1	18.5	17.9	17.2	16.6	16.9	15.9	16.0	16.2	16.1
United States (2)	.....	.....	.....	.....	.....	.....	17.6	16.6	15.9	16.1	16.6	16.2	16.1	16.5	15.4
California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17.4	18.6	18.4
Colorado	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15.9	17.6	17.0
Connecticut	16.8	17.8	17.5	15.7	15.8	15.7	18.0	16.2	15.2	16.1	15.9	16.5	16.7	17.1	15.4
Indiana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13.5	12.8	12.5	12.5	12.3
Maine	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.5	16.2	16.2	16.6	16.0
Maryland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15.7	16.1	15.5
Massachusetts	19.1	19.0	19.3	18.1	17.5	17.4	18.2	17.0	16.5	16.8	16.4	16.8	16.6	17.6	16.5
Michigan	8.9	9.5	9.0	8.2	12.0	13.6	12.4	13.4	12.7	13.3	13.6	13.6	14.3	13.9	13.9
New Hampshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.0	17.0	17.3	17.1	16.3
New Jersey	19.1	18.3	17.9	16.9	15.1	16.7	16.6	16.5	15.9	15.9	17.1	15.8	16.2	16.6	15.4
New York	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18.0	17.0	17.1	17.6	16.3
Pennsylvania	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.5	16.5	15.7
Rhode Island	19.1	19.6	19.1	17.6	16.7	17.6	20.6	18.2	17.8	19.0	17.3	17.1	17.6	18.0	16.2
South Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8.8	9.8	10.1
Vermont	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.0	17.0	16.8	16.2	16.0
Washington	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14.8
Wisconsin	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11.6

(1) No figure available.
(2) Registration area only.
NOTE.—Data for foreign countries taken from International Tables of English Registrar-General's Report.

Digitized by Google

MICHIGAN VITAL STATISTICS COMPARED WITH THOSE OF OTHER STATES AND COUNTRIES.

The significance of the vital rates of any state or country cannot be fully known until comparisons have been made with those of others. While the crude marriage, birth and death rates are not sufficient for the formation of absolutely reliable conclusions relative to the exact intensity of the marriage movement, or the fecundity or sanitary condition of the population so measured, nevertheless, the crude rates, taken without correction for dissimilar constitution of the population, must always form the first step in the comparative study of vital statistics. By means of the data contained in Tables 3, 4, 5, which are chiefly derived from the tables of international statistics printed in the last report of the Registrar-General of England, the vital rates of Michigan for fifteen years past may be compared with those of various European countries, and also with the rates of certain states in this country and with those of New Zealand and New South Wales, as representative of the vital statistics of Australasia.

COMPARISON OF VITAL RATES OF COUNTIES.

In Table 6 estimated populations are given for each of the counties of the State for the year 1908. In estimating populations what is known as the "arithmetical method" has been employed; in fact, this method has been used in this State for the estimation of populations for intercensal and postcensal years, both for the *Michigan Monthly Bulletin of Vital Statistics* and for the Annual Registration Reports ever since any systematic methods of estimating populations have been made use of. While all methods of estimating populations are more or less liable to error, especially when there are long intervals between census enumerations, investigation has proven that the arithmetical methods accord more closely with the actual enumerated results than any other method, while at the same time it is readily applied, and is one of the most simple methods.

In this table the number of deaths, marriages, births and divorces registered are given for the State and individual counties, together with the corresponding rates per 1,000 estimated population for the year. It will be noted, however, that the marriage and divorce rates are stated as *persons married* and *persons divorced*, instead of as so many marriages and divorces per 1,000 population. In comparing the vital rates of the different counties, it is important to consider the age distribution of the population. As the greatest number of deaths, relatively speaking, occurs in the age periods under five years and over sixty-five years of age, it follows that the counties having proportionally the greatest population covered by these ages will also show the greatest number of deaths.

To obtain an exact basis for marriage rates, the persons married should be compared with the number of unmarried persons of marriageable age in the population. In like manner, divorce rates should be based on the number of married persons in population affording them. It should be borne in mind, however, in studying this table, that the number of divorces for any stated year cannot be compared directly with the number of marriages in the same year, owing to the fact that the divorces granted are the outcome of marriages performed some years prior. While such rates as are given in these tables are necessary and form the first step in any statistical

Digitized by Google

investigation of this character, the above statements are given so that conclusions based upon these rates will not be accepted as absolutely reliable, until they have been fully analyzed and investigated.

The death rates for the individual counties do not, as a rule, vary very widely from the State average of 13.9 per 1,000 estimated population. Gladwin has the lowest rate for the State, 7.8 per 1,000 estimated population.

The returns of marriages from Berrien county are greatly increased by means of the famous St. Joseph marriage industry, which has come to be recognized as a characteristic feature of the marriage statistics of Michigan.

The rate for the county thus obtained as shown by this table, 65.3, is not, therefore, comparable with other county marriage rates, and the general marriage rate is somewhat affected by this increase.

Digitized by Google

Table 6.—Deaths, marriages, divorces, and births in Michigan by counties for the year 1908, with rates per 1,000 estimated population. (Stillbirths included in births but excluded from deaths).

State and counties.	Estimated population, 1908.	Number of deaths registered, 1908.	Number of marriages registered, 1908.	Number of divorces granted, 1908.	Number of births registered, 1908.	Rates per 1,000 estimated population, 1908.			
						Deaths.	Persons married.	Persons divorced.	Births.
State	2,639,050	36,761	25,765	3,020	64,772	13.9	19.5	2.3	24.5
Alcona	5,677	70	51	3	134	12.3	18.0	1.1	23.6
Alger	7,202	104	65	6	184	14.4	18.1	1.7	25.5
Allegan	39,084	582	333	42	932	14.9	17.0	2.1	23.8
Alpena	21,242	307	154	10	206	14.5	14.5	0.9	9.7
Antrim	14,742	221	153	16	420	15.0	20.8	2.2	28.5
Arenac	10,547	120	72	5	249	11.4	13.7	0.9	23.6
Baraga	5,888	74	37	5	110	12.6	12.6	1.7	18.7
Barry	21,536	260	197	29	446	12.1	18.3	2.7	20.7
Bay	64,518	811	551	65	1,898	12.6	17.1	2.0	29.4
Bengie	11,895	157	110	24	336	13.2	18.5	4.0	28.2
Berrien	49,615	743	1,619	76	1,044	15.0	65.3	3.1	21.0
Branch	24,983	395	230	36	479	15.8	18.4	2.1	19.2
Calhoun	56,611	749	549	129	1,040	13.2	19.4	4.6	18.4
Cass	19,184	293	213	28	373	15.3	22.2	2.9	19.4
Charlevoix	18,600	239	160	26	486	12.8	17.2	2.8	26.1
Cheboygan	18,996	228	150	18	469	12.0	15.8	1.9	24.7
Chippewa	22,912	284	214	20	670	12.4	18.7	1.8	29.2
Clare	10,018	132	79	14	257	13.2	15.8	2.8	25.7
Clinton	25,280	300	183	29	498	11.9	14.5	2.3	19.7
Crawford	4,765	44	41	1	137	9.2	17.2	0.4	28.8
Delta	30,187	441	227	25	881	14.6	15.0	1.7	29.2
Dickinson	19,982	258	164	7	673	12.9	16.4	0.7	33.7
Eaton	29,744	468	322	53	625	15.7	21.7	3.6	21.0
Emmet	19,853	260	202	24	512	13.1	20.3	2.4	25.8
Genesee	43,702	652	414	75	929	14.9	18.9	3.4	21.3
Gladwin	10,638	83	58	3	252	7.8	10.9	0.5	23.7
Gogebic	17,856	290	267	12	917	16.2	29.9	1.3	51.4
Grand Traverse	25,925	460	230	30	554	17.7	17.7	2.3	21.4
Gratiot	31,183	384	320	48	711	12.3	20.5	3.1	22.8
Hillsdale	29,809	407	315	38	566	13.7	21.1	2.5	19.0
Houghton	75,187	1,041	782	22	3,166	18.8	20.8	0.6	42.1
Huron	35,728	395	246	13	950	11.1	13.8	0.7	26.6
Ingham	47,396	595	506	38	946	12.6	21.4	1.6	20.0
Ionia	34,925	465	314	45	698	13.3	18.0	2.6	20.0
Iosco	10,834	122	77	10	238	11.3	14.2	1.8	22.0
Iron	8,860	185	114	9	389	20.9	25.7	0.2	43.9
Isabella	25,428	275	201	15	624	10.8	15.8	1.2	24.5
Jackson	46,022	754	508	97	962	16.4	22.1	4.2	20.9
Kalamazoo	55,214	912	636	118	1,151	16.5	23.0	4.3	20.8
Kalkaska	8,083	131	81	16	246	16.2	20.0	4.0	30.4
Kent	147,262	2,086	1,568	261	3,668	14.2	21.3	3.5	24.9
Keweenaw	5,875	107	46	0	317	18.2	15.7	.....	54.0
Lake	5,041	59	46	4	114	11.7	18.3	1.6	22.6
Lapeer	26,459	364	240	26	587	13.8	18.1	2.0	22.2
Leelanau	11,096	142	62	4	293	12.8	11.2	0.7	26.4
Lenawee	49,788	671	432	73	909	13.5	17.4	2.9	18.6
Livingston	17,634	262	149	12	369	14.9	16.9	1.4	20.9
Luce	4,781	91	27	1	105	19.0	11.3	0.4	22.0
Mackinac	8,791	114	60	0	186	13.0	13.7	.....	21.2
Macomb	32,946	431	240	32	679	13.1	14.6	1.9	20.6
Manistee	26,490	341	244	10	682	12.9	18.4	0.8	25.7
Marquette	38,781	631	365	13	1,333	16.3	18.8	0.7	34.4
Mason	20,331	276	199	7	452	13.6	19.6	0.7	22.2
Mecosta	19,739	272	209	17	493	13.8	21.2	1.7	25.0
Menominee	25,884	307	420	14	552	11.9	32.5	1.1	21.3
Midland	14,833	160	113	9	382	10.8	15.2	1.2	25.8

Digitized by Google

Table 6.—Concluded.—Deaths, marriages, divorces and births in Michigan by counties, for the year 1908, with rates per 1,000 population.

State and counties.	Estimated population, 1908.	Number of deaths registered, 1908.	Number of marriages registered, 1908.	Number of divorces granted, 1908.	Number of births registered, 1908.	Rates per 1,000 estimated population, 1908.			
						Deaths.	Persons married.	Persons divorced.	Births.
Missaukee	11,224	122	74	11	312	10.9	13.2	2.0	27.8
Monroe	33,088	398	470	24	666	12.0	28.4	1.5	20.1
Montcalm	33,766	425	303	44	810	12.6	17.9	2.6	24.0
Montmorency	3,796	44	34	2	119	11.6	17.9	1.1	31.3
Muskegon	37,710	501	342	45	896	13.3	18.1	2.4	23.8
Newaygo	19,169	244	168	28	457	12.7	17.5	2.9	23.8
Oakland	46,700	741	325	37	861	15.9	13.9	1.6	18.4
Oceana	18,790	243	158	19	418	12.9	16.8	2.0	22.2
Ogemaw	10,477	96	79	3	280	9.2	15.1	0.6	26.7
Ontonagon	8,135	110	55	2	291	13.5	13.5	0.5	35.8
Osceola	19,407	194	174	11	492	10.0	17.9	1.1	25.4
Oscoda	2,308	20	20	1	54	8.7	17.3	0.9	23.4
Otsego	8,303	84	66	8	158	10.1	15.9	1.9	19.0
Ottawa	44,731	523	432	27	1,179	11.7	19.3	1.2	26.4
Presque Isle	12,923	162	97	7	354	12.5	15.0	1.1	27.4
Roscommon	1,675	24	18	4	54	14.3	21.5	4.8	32.2
Saginaw	90,120	1,106	725	102	1,933	12.3	16.1	2.3	21.4
St. Clair	56,046	746	409	46	1,217	13.3	14.6	1.6	21.7
St. Joseph	22,569	316	206	15	461	14.2	18.3	1.3	20.4
Sanilac	34,679	367	277	17	958	10.6	16.0	1.0	27.6
Schoolcraft	9,367	126	57	3	273	13.5	12.2	0.6	29.1
Shiawassee	33,556	449	318	39	655	13.4	19.0	2.3	19.5
Tuscola	36,032	427	308	28	787	11.9	17.1	1.6	21.8
Van Buren	36,656	405	260	52	730	11.0	14.2	2.8	19.9
Washtenaw	45,791	676	327	52	805	14.8	14.3	2.3	17.6
Wayne	424,861	6,925	4,249	597	11,491	16.3	20.0	2.8	27.0
Wexford	21,589	282	249	33	582	13.1	23.1	3.1	27.0

Digitized by Google

Table 7.—Deaths, marriages, divorces and births in Michigan, by counties, for the years 1907-1908, showing the increase (or decrease) of the number registered for the year 1908, as compared with that of the preceding year. (Stillbirths included in births, but not in deaths).

State and counties.	Deaths.			Marriages.			Divorces.			Births.		
	Number in 1908.	Number in 1907.	Increase or decrease.*	Number in 1908.	Number in 1907.	Increase or decrease.*	Number in 1908.	Number in 1907.	Increase or decrease.*	Number in 1908.	Number in 1907.	Increase or decrease.*
STATE	36,761	36,701	60	25,765	27,940	—2,175	3,020	3,107	—87	64,772	59,029	5,743
Alcona	70	61	9	51	45	6	3	2	1	134	147	—13
Alger	104	67	37	65	66	—1	6	2	4	184	145	39
Allegan	582	512	70	333	332	1	42	44	—2	932	856	76
Alpena	307	259	48	154	164	—10	10	11	—1	206	159	47
Antrim	221	219	2	153	151	2	16	21	—5	420	376	44
Arenac	120	99	21	72	86	—14	5	0	5	249	253	—4
Baraga	74	68	6	37	50	—13	5	5	0	110	122	—12
Barry	260	295	—35	197	220	—23	29	43	—14	446	453	—7
Bay	811	971	—160	551	614	—63	65	55	10	1,898	1,750	148
Benzie	157	132	25	110	102	8	24	7	17	336	257	79
Berrien	743	718	25	1,619	1,642	—23	76	81	—5	1,044	1,034	10
Branch	395	341	54	230	258	—28	36	42	—6	479	462	17
Calhoun	749	870	—121	549	581	—32	129	109	20	1,040	885	155
Cass	293	279	14	213	208	5	28	29	—1	373	397	—24
Charlevoix	239	223	16	160	181	—21	26	19	7	486	451	35
Cheboygan	228	232	—4	150	180	—30	18	19	—1	469	272	197
Chippewa	284	296	—12	214	228	—14	20	27	—7	670	631	39
Clare	132	104	28	79	84	—5	14	17	—3	257	238	19
Clinton	300	349	—49	183	211	—28	29	27	2	498	515	—17
Crawford	44	53	—9	41	33	8	1	1	0	137	121	16
Delta	441	382	59	227	290	—63	25	34	—9	881	673	208
Dickinson	258	216	42	164	180	—16	7	2	5	673	734	—61
Eaton	468	396	72	322	286	36	53	54	—1	625	618	7
Emmet	260	208	52	202	231	—29	24	27	—3	512	444	68
Genesee	652	650	2	414	476	—62	75	70	5	929	819	110
Gladwin	83	80	3	58	65	—7	3	4	—1	252	209	43
Gogebic	290	289	1	267	324	—57	12	9	3	917	850	67
Grand Traverse	460	372	88	230	238	—8	30	38	—8	554	480	74
Gratiot	384	373	11	320	317	3	48	50	—2	711	658	53
Hillsdale	407	430	—23	315	288	27	38	42	—4	566	514	52
Houghton	1,041	894	147	782	855	—73	22	25	—3	3,166	2,884	282
Huron	395	381	14	246	229	17	13	22	—9	950	840	110
Ingham	595	570	25	506	486	20	38	65	—27	946	845	101
Ionia	465	484	—19	314	341	—27	45	61	—16	698	620	78
Iosco	122	127	—2	77	81	—4	10	11	—1	238	236	2

Digitized by Google

Iron	185	156	27	114	147	—33	9	5	4	389	315	74
Isabella	275	278	—3	201	196	5	15	26	—11	624	581	43
Jackson	754	778	—24	508	553	—45	97	94	3	962	858	104
Kalamazoo	912	881	31	636	658	—22	118	95	23	1,151	1,122	29
Kalkaska	131	100	31	81	92	—11	16	10	6	246	186	60
Kent	2,086	2,197	—111	1,568	1,853	—285	261	300	—39	3,668	3,508	160
Keweenaw	107	61	46	46	47	—1	0	1	—1	317	275	42
Lake	59	61	—2	46	34	12	4	2	2	114	106	8
Lapeer	364	361	3	240	210	30	26	26	0	587	560	27
Leelanau	142	163	—21	62	70	—8	4	5	—1	293	273	20
Lenawee	671	692	—21	432	453	—21	73	85	—12	909	875	34
Livingston	262	250	12	149	126	23	12	19	—7	369	337	32
Luce	91	101	—10	27	44	—17	1	2	—1	105	103	2
Mackinac	114	102	12	60	82	—22	0	8	—8	186	214	—28
Macomb	431	518	—87	240	225	15	32	28	4	679	687	—8
Manistee	341	290	51	244	205	39	10	8	2	682	659	23
Marquette	631	651	—20	365	416	—51	13	9	4	1,333	1,289	44
Mason	276	223	53	199	175	24	7	13	—6	452	465	—13
Mecosta	272	284	—12	209	182	27	17	24	—7	493	445	48
Menominee	307	295	12	420	526	—106	14	6	8	552	508	44
Midland	160	180	—20	113	111	2	9	15	—6	382	349	33
Missaukee	122	134	—12	74	106	—32	11	11	0	312	252	60
Monroe	398	453	—55	470	527	—57	24	31	—7	666	601	65
Montcalm	425	432	—7	303	294	9	44	39	5	810	684	126
Montmorency	44	58	—14	34	37	—3	2	8	—6	119	111	8
Muskegon	501	524	—23	342	345	—3	45	45	0	896	789	107
Newaygo	244	221	23	168	163	5	28	17	11	457	373	84
Oakland	741	748	—7	325	317	8	37	40	—3	861	698	163
Oceana	243	235	8	158	153	5	19	20	—1	418	406	12
Ogemaw	96	130	—34	79	90	—11	3	11	—8	280	275	5
Ontonagon	110	108	2	55	63	—8	2	0	2	291	296	—5
Osceola	194	211	—17	174	151	23	11	17	—6	492	472	20
Oscoda	20	28	—8	20	19	1	1	1	0	54	67	—13
Otsego	84	78	6	66	69	—3	8	6	2	158	148	10
Ottawa	523	492	31	432	398	34	27	25	2	1,179	1,155	24
Presque Isle	162	120	42	97	108	—11	7	16	—9	354	289	65
Roscommon	24	23	1	18	14	4	4	3	1	54	62	—8
Saginaw	1,106	1,082	24	725	802	—77	102	120	—18	1,933	1,636	297
St. Clair	746	709	37	409	501	—92	46	47	—1	1,217	1,116	101
St. Joseph	316	358	—42	206	254	—48	15	25	—10	461	393	68
Sanilac	367	394	—27	277	257	20	17	13	4	958	894	64
Schoolcraft	126	119	7	57	75	—18	3	2	1	273	215	58
Shiawassee	449	455	—6	318	316	2	39	50	—11	655	666	—11
Tuscola	427	395	32	308	277	31	28	32	—4	787	807	—20
Van Buren	405	482	—77	260	318	—58	52	47	5	730	667	63
Washtenaw	676	662	14	327	362	—35	52	53	—1	805	754	51
Wayne	6,925	7,189	—264	4,249	5,151	—902	597	530	67	11,491	9,937	1,554
Wexford	282	237	45	249	245	4	33	42	—9	582	603	—21

*Decrease indicated by a minus sign (—).

Digitized by Google

PART II.—BIRTHS IN MICHIGAN DURING THE YEAR 1908.

Owing to the increased accuracy in the returns of births to the Department, a decided change has been inaugurated in this Report. That is in placing births at the head of the list in the Report instead of at the bottom. The present or Forty-second Annual Registration Report of Michigan is the third of the new series of reports based upon the improved method of registration that has been in force in this State since January 1, 1906. The data obtained under the old law for the enumeration of births, that was in force for nearly forty years, were grossly inaccurate in many very important repects. Hence no extended comparisons of birth rates for the last three years can be made with those for the earlier and more imperfect years of registration.

The total number of births returned to the Department of State for the year 1908, was 64,772, including stillbirths, of which there were returned 2,252 on certificates of births.

In Table 1, Part I, is presented a statement of the births occurring each month of the year, together with the daily averages.

Table 2, Part I, shows the births and birth rates for previous years in comparison with 1908.

In examining Table 2, it may be noted that while the rates for the years of registration under the old law, prior to 1906, are too imperfect to be directly comparable with the later years, it is probable that the variations are, for the most part, correctly indicated. The method of enumeration remained uniform during the earlier period, 1867–1906, so that, undoubtedly, the general degree of accuracy remained the same.

SUMMARY OF THE ENUMERATION OF BIRTHS FOR THE YEAR 1908.

Total number of births returned, 1908	64,772
Birth rate per 1,000 estimated population	24.5

Distributed by sex, there were:

Male children born in 1908	33,523
Female children born in 1908	31,249
Males born per 100 births of females	107

The parent nativity of children born in 1908, exclusive of births to parents of different nativities;

Born to parents both native born	36,799
Born to parents both of foreign birth	14,858

Plural births:

Twin children	1,230

Illegitimacy:

Illegitimate births, 1908	888
Illegitimate births per 1,000 births, 1908	13.7

Digitized by Google

BIRTHS BY MONTHS AND QUARTERS.

The distribution of births by months and quarters for the year is shown in Table 8, the rates being distributed through the months about as evenly as it was in the preceding year. The maximum monthly rate, 27.4, was in the month of March. The minimum month was December, with 4,863 births recorded, equivalent to a rate of 21.7 per 1,000 estimated population. The average number of births per month was 5,888. An interesting feature is shown in this table, viz., the comparison of the birth rates of the months, as based upon the final compilation of the returns after all delinquent certificates have been received and placed in the proper months, with the original rates as printed in the *Monthly Bulletins*.

Table 8.—Births in Michigan by months and quarters, 1908. (Stillbirths included).

Year and months.	Number of births.		Average number per day.	Rank.	Birth rate per 1,000 estimated population.	Birth rate as originally printed in *Monthly Bulletins*.	Increase for delayed returns.
	By months.	By Quarters.					
Year 1908	64,772	64,772	.....	1,200	24.5	20.3	4.2
January	5,085	16,366	164.0	92	22.7	17.6	5.1
February	5,156		184.1	104	25.4	20.6	4.8
March	6,125		197.6	111	27.4	20.5	6.9
April	5,769	17,079	192.3	108	26.7	21.5	5.2
May	5,925		191.1	108	26.5	20.4	6.1
June	5,385		179.5	101	24.9	21.5	3.4
July	5,559	16,615	179.3	101	24.9	21.7	3.2
August	5,722		184.6	104	25.6	21.4	4.2
September	5,334		177.8	100	24.7	19.9	4.8
October	5,144	14,712	165.9	93	23.0	20.1	2.9
November	4,705		156.8	88	21.8	18.0	3.8
December	4,863		156.9	88	21.7	18.7	3.0
Average	5,888	16,193	177.5	.....	.....	.....	.....

By referring to Table 9, it will be seen that the total number of births for the year recorded in the *Monthly Bulletins*, 53,522, was 11,250 less than the total number of births, 64,772, returned ultimately, and compiled in this report. This apparent great discrepancy is caused from the fact that physicians and midwives are given ten days in which to file certificates, and in many cases when the births occur in the latter part of the month they are not filed in time for forwarding with the regular report, and in consequence are held over until the following month.

Digitized by Google

Table 9.—Delayed returns of births by months, 1908. (Stillbirths included).

Births returned and published in—	Total births, 1908.	Months of birth, 1908.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Annual registration report	64,772	5,085	5,156	6,125	5,769	5,925	5,385	5,559	5,722	5,334	5,144	4,705	4,863
Monthly Bulletins.....	53,522	3,931	4,127	5,135	4,654	4,567	4,647	4,756	4,780	4,441	4,278	4,026	4,180
Delayed returns.....	11,250	1,154	1,029	990	1,115	1,358	738	803	942	893	866	679	683
Per cent*.....	17.4	22.7	20.0	16.2	19.4	22.9	13.7	14.4	16.5	16.8	16.8	14.4	14.0

*Per cent of deficiency of Bulletin returns as compared with final figures of report (=100 per cent.)

BIRTHS RETURNED BY MONTHS, 1899–1908.

The number of births returned for each month of the calendar year is shown for the last decade in Table 10. The maximum number occurred in the month of March and the minimum number in the month of November.

Table 10.—Births returned, by months, for the years 1899-1908 inclusive. (Stillbirths included).

Years.	Total for year.	Months.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1899.....	41,818	*3,099*	3,134	3,681	3,652	3,494	3,199	3,633	**3,785**	3,758	3,454	3,262	3,636	31
1900.....	43,699	*3,069*	3,105	3,821	3,930	3,755	3,501	3,777	**3,983**	3,880	3,658	3,415	3,762	43
1901.....	43,221	*2,974*	3,087	3,782	3,682	3,594	3,492	3,745	3,926	**3,593**	3,633	3,438	3,881	34
1902.....	45,546	3,220	*3,200*	3,881	3,667	3,888	3,786	4,065	4,154	3,963	3,893	3,741	4,049	39
1903.....	46,020	*3,227*	3,239	3,796	3,752	4,042	3,841	3,848	4,189	4,046	3,976	3,882	4,121	61
1904.....	47,508	*3,310*	3,509	3,961	3,885	4,102	3,913	4,079	4,312	4,295	4,254	3,732	4,125	31
1905.....	46,976	*3,018*	3,227	3,959	4,056	4,183	3,867	4,189	4,268	4,089	4,124	3,776	4,192	32
1906*.....	58,599	4,769	4,685	**5,474**	5,074	4,971	5,023	5,196	5,137	4,784	4,669	*4,254*	4,568	.....
1907.....	59,029	4,740	4,633	5,214	5,200	5,065	4,699	4,994	**5,341**	5,112	4,873	*4,480*	4,798	.....
1908.....	64,722	5,085	5,156	6,125	5,769	5,925	5,385	5,559	5,722	5,334	5,144	*4,705*	4,863	.....

Maxima in bold face; minima in *italics*.
*The new law for the immediate registration of births in effect for this year. The returns are, therefore, not comparable with previous years of registration.

NATIVITY OF PARENTS OF CHILDREN BORN IN MICHIGAN, 1908.

The distribution of parent nativity of children born in Michigan during the year may be seen in Table 11. Over one-half of all the children born (56.8 per cent) had parents both of native birth. A little less than one fourth of the children born during the year (22.9 per cent) had parents both of foreign birth, while the remainder was of mixed or unknown parent nativity. Of the total number of births for the year, 49,647 or 76.6 per cent had parents one or both of native birth, and 27,201 or 42.0 per cent had parents one or both of foreign birth.

Digitized by Google

Table 11.—Parent nativity of children born in Michigan, 1908. (Stillbirths included).

Nativity of parents of children Born 1908.	Number of births, 1908.			Per cent of total.		
	Total.	Males.	Females.	Total.	Males.	Females.
All nativities	64,772	33,523	31,249	100.0	100.0	100.0
Both native born	36,799	19,088	17,711	56.8	56.9	56.7
Both foreign born	14,858	7,626	7,232	22.9	22.7	23.1
Foreign father, native mother	7,793	4,078	3,715	12.0	12.2	11.9
Foreign mother, native father	4,404	2,255	2,149	6.8	6.7	6.9
Unknown mother, native father	53	30	23	0.1	0.1	0.1
Unknown mother, foreign father	15	7	8	0.0	0.0	0.0
Unknown father, native mother	598	305	293	0.9	0.9	0.9
Unknown father, foreign mother	131	65	66	0.2	0.2	0.2
Both unknown	121	69	52	0.2	0.2	0.2
One or both native	49,647	25,756	23,891	76.6	76.8	76.5
One or both foreign	27,201	14,031	13,170	42.0	39.3	42.1

Table 12.—Parent nativity of children born in Michigan for each of the years 1899-1908 inclusive. (Stillbirths included).

Years.	Nativity of parents of children—Per cent of total.												
	Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	One or both unknown.	Father—			Mother—			One or both parents native born.*	One or both parents foreign born.*
						Native.	Foreign.	Unknown.	Native.	Foreign.	Unknown.		
1899	44.3	33.4	12.0	7.5	2.9	52.0	45.6	2.4	56.8	41.0	2.2	64.5	53.2
1900	45.6	32.5	12.1	7.3	2.5	53.2	44.7	2.0	58.1	39.9	2.0	65.7	52.0
1901	47.1	31.4	12.2	7.4	2.0	54.7	43.7	1.6	59.7	38.9	1.5	67.3	51.2
1902	48.3	30.6	12.1	7.1	1.9	55.7	42.9	1.4	60.8	37.8	1.4	69.1	51.0
1903	48.9	29.6	12.2	7.0	2.3	56.1	42.0	1.9	61.5	36.8	1.7	70.1	50.4
1904	50.4	28.2	12.3	6.9	1.4	57.5	40.6	1.9	63.0	35.3	1.7	71.6	49.1
1905	52.8	27.2	11.5	6.5	2.0	59.5	38.8	1.7	64.7	33.8	1.5	72.6	46.6
1906†	56.1	22.9	12.1	7.2	1.7	63.4	35.0	1.6	69.2	30.3	0.5	76.5	42.5
1907	56.9	22.6	11.9	7.0	1.6	64.0	34.5	1.5	69.8	29.8	0.4	76.9	41.8
1908	56.8	22.9	12.0	6.8	1.4	63.7	34.9	1.3	69.7	29.9	0.3	76.6	42.0

*Including cases where nativity of either parent is unknown.
†See note on Table 10.

Digitized by Google

Table 13.—Parent nativity of children born in Michigan during the years 1906-1908, compared with averages for seven quinquennial periods, 1871-1905. (Stillbirths included).

Years and periods averaged.	Nativity of parents.—Per cent of total.				
	Both native born.	Both foreign born.	Foreign father and native mother.	Native father and foreign mother.	One or both unknown.
Average, 1871-75	44.8	34.3	9.5	5.2	6.2
Average, 1876-80	46.0	34.1	11.0	5.7	3.1
Average, 1881-85	43.7	35.5	11.5	6.2	2.8
Average, 1886-90	42.7	37.6	10.7	6.2	2.1
Average, 1891-95	41.5	37.8	11.1	6.5	3.1
Average, 1896-1900	44.3	33.7	11.9	7.2	2.9
Average, 1901-1905	49.5	30.1	12.1	7.0	1.8
Year 1906	56.1	22.9	12.1	7.2	1.7
Year 1907	56.9	22.6	11.9	7.0	1.6
Year 1908	56.8	22.9	12.0	6.8	1.4

Digitized by Google

PART III.—DEATHS AND CAUSES OF DEATHS IN MICHIGAN DURING THE YEAR 1908.

The total number of deaths returned to the Department of State during the year 1908 was 36,761, exclusive of stillbirths, of which there were returned 2,694 on certificates of death.

In Table 1, Part I, may be seen the number of deaths returned for each month of the year 1908, together with the daily average. The largest number of deaths returned in any single month was in February, the average number being 115.0 deaths per day. The smallest number of deaths and the smallest average number were for the month of June, being 2,572 and 85.7 respectively.

Table 2, Part I, shows the deaths and death rates for previous years in comparison with 1908. Under the International Classification, which has now come into general use, stillbirths are excluded from deaths, being relegated to a separate class.

In examining Table 2, it may be noted that while the rates for the years of registration under the old law, prior to 1898, are too imperfect to be directly comparable with the later years, it is probable that the variations in the mortality, are, for the most part, correctly indicated. The method of enumeration remained uniform during the earlier period, 1867–1897, so that, undoubtedly, the general degree of accuracy remained the same.

SECTION I.—INCIDENCE OF DEATHS IN MICHIGAN DURING THE YEAR 1908.

The Tables in this section contain statements in regard to the incidence of deaths in the State during the year 1908, arranged to show the following particulars: (1) Deaths from all causes by months; (2) number and proportion of each sex among the decedents; (3) deaths by ages of deceednts; (4) geographical distribution of deaths; and (5) location as urban and rural.

Herewith is presented a brief statement of the more prominent facts contained in this section:

Total number of deaths returned, 1908	36,761
Death rate per 1,000 estimated population	13.9

In addition to the number of deaths noted above, there were also 2,694 stillbirths included among the returns of death but no longer compiled with them.

Stillbirths returned, 1908	2,694
Stillbirth rate per 1,000 estimated population	1.0

As to the monthly incidence of deaths we have:

More than average mortality	January, February, March, April, September, October.
Less than average mortality	May, June, July, November, December.
Maximum mortality	February, 3,336 deaths, or 16.4 per 1,000 estimated population.
Minimum mortality	June, 2,572 deaths, or 11.9 per 1,000 estimated population.

By sex, there were:

Males dying in Michigan, 1908	19,753
Females dying in Michigan, 1908	17,008
Ratio of death rate of males to death rate of females	111

Digitized by Google

By age periods there were, exclusive of stillbirths, deaths as follows:

Under one year of age	7,697 or 20.9 per cent.
Under five years of age	10,085 or 27.4 per cent.
Aged five to fourteen years	1,360 or 3.7 per cent.
Aged fifteen to sixty-four years	14,203 or 38.6 per cent.
Aged sixty-five years and over	11,072 or 30.1 per cent.

By geographical sections we have:

Deaths in the Upper Peninsula	4,163.
Deaths in the northern counties	4,420.
Deaths in the central counties	5,610.
Deaths in the southern counties	22,568.

DEATHS BY MONTHS AND QUARTERS, 1908.

Table 14 shows the distribution of deaths in Michigan according to the months and quarters of the year 1908. The maximum monthly rate, 16.4, was in the month of February, and the month of least mortality was June, with a rate of 11.9 per 1,000 estimated population. The average number of deaths per month was 3,063.

An interesting feature is also shown in this table, viz., the comparison of the death rates of the months, as based upon the final compilation of returns after all delinquent districts have reported, with the original rates as printed in the *Monthly Bulletins*.

Table 14.—Deaths in Michigan by months and quarters 1908. (Stillbirths excluded).

Year and months.	Number of deaths. By months.	Number of deaths. By quarters.	Average number per day.	Rank.	Death rate per 1,000 estimated population.	Death rate as originally printed in Bulletin.	Increase for delayed returns.
Year 1908	36,761	36,761	.....	1,200	13.9	13.6	0.3
January	3,162	9,960	102.0	101	14.1	12.4	1.7
February	3,336		115.0	118	16.4	16.2	0.2
March	3,462		111.7	111	15.4	13.5	1.9
April	3,254	8,798	108.5	108	15.0	14.8	0.2
May	2,972		95.9	95	13.3	13.0	0.3
June	2,572		*85.7*	*85*	*11.9*	11.6	0.3
July	2,710	9,199	87.4	87	12.1	12.1	0.0
August	3,113		100.4	100	13.9	13.8	0.1
September	3,375		112.5	112	15.6	14.7	0.9
October	3,328	8,804	107.2	107	14.8	14.3	0.5
November	2,823		94.1	93	13.0	12.3	0.7
December	2,659		85.8	85	11.9	11.5	0.4
Average	3,063	9,190	100.7	100	.....	.....	.....

Table 15.—Delayed returns of deaths by months, 1908. (Stillbirths excluded).

Deaths returned and published in—	Total deaths, 1908.	Months of death, 1908. Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Annual registration report	36,761	3,162	3,336	3,462	3,254	2,972	2,572	2,710	3,113	3,375	3,323	2,823	2,659
Monthly Bulletins	35,899	3,097	3,235	3,381	3,203	2,915	2,515	2,655	3,092	3,280	3,202	2,742	2,582
Delayed returns	862	65	101	81	51	57	57	55	21	95	121	81	77
Per cent*	2.3	1.1	3.0	2.3	1.6	1.9	2.2	2.0	0.7	2.8	3.6	2.9	2.9

*Per cent of deficiency of Bulletin returns as compared with final figures of report (=100 per cent).

Digitized by Google

By referring to Table 15, it will be seen that the total number of deaths for the year recorded in the *Monthly Bulletins*, 35,899, was 862 less than the total number of deaths, 36,761, returned ultimately, and compiled in this report. Nevertheless, in the final report, as compared with the original returns, there is slight variation in the death rate for the year.

MORTALITY OF THE SEXES IN MICHIGAN, 1908.

The distribution of deaths by sex during the year 1908 is shown in Table 16, together with a comparison with the estimated population of each sex and also the results of the preceding years, 1890–1908, together with the ten-year average, 1899–1908.

Table 16.—Deaths and death rates in Michigan by sex, 1890-1908, with 10 year average. (Stillbirths excluded).

Year.	Population.		Number of deaths.		Rates per 1,000 estimated population.		Deaths of males to 100 deaths of females.	Relative male mortality.*
	Males.	Females.	Males.	Females.	Males.	Females.		
1890†	1,091,780	1,002,109	11,801	9,771	10.8	9.8	120.7	110
1891	1,108,970	1,021,857	11,908	9,998	10.7	9.8	119.1	109
1892	1,126,160	1,041,605	11,837	9,809	10.5	9.4	120.7	112
1893	1,143,350	1,061,353	11,772	10,142	10.3	9.6	116.1	107
1894†	1,160,540	1,081,101	11,159	9,744	9.6	9.0	114.5	107
1895	1,177,730	1,100,849	12,161	10,510	10.3	9.5	115.7	108
1896	1,194,920	1,120,597	11,807	10,119	9.9	9.0	116.7	110
1897	1,212,110	1,140,345	10,294	8,829	8.5	7.7	116.6	110
1898	1,229,300	1,160,093	15,624	13,809	12.7	11.9	113.1	107
1899	1,246,490	1,179,841	18,025	15,605	14.5	13.2	115.5	100
1900†	1,243,905	1,172,077	17,943	15,772	14.4	13.5	113.8	107
1901	1,263,632	1,187,240	17,540	15,273	13.9	12.9	114.8	108
1902	1,273,780	1,201,719	17,040	14,432	13.4	12.0	118.0	112
1903	1,286,217	1,216,541	17,780	15,396	13.8	12.0	115.5	115
1904†	1,298,654	1,231,362	18,741	15,753	14.4	12.8	119.0	113
1905	1,311,092	1,246,183	18,785	15,894	14.3	12.8	118.1	112
1906	1,323,529	1,261,004	20,050	16,983	15.1	13.5	118.1	112
1907	1,335,967	1,275,825	20,114	16,587	15.1	13.0	121.3	116
1908	1,348,404	1,290,646	19,753	17,008	14.6	13.2	116.1	111
Average 1899–1908	1,293,667	1,226,244	18,578	15,870	14.4	12.9	117.1	112

*Ratio of *death rates* (not deaths) of males to death rates of females. This comparison eliminates the unequal distribution of the sexes in the population.
†Census years.

Excluding stillbirths, there were 19,753 male decedents and 17,008 female decedents during the year. The respective death rates were 14.6 and 13.2 per 1,000 estimated population. These death rates are strictly comparable only with the years since 1898, as the previous years, 1890–1897, were collected under the very imperfect law that was then in effect. However, the relative number of males per 100 deaths of females for the year, 116.1, is fully comparable with the corresponding ratio for the preceding years, and the relative male mortality shown in the last column of the table, 111, which

is the ratio of the death rate of males to the death rate of females taken as 100 per cent, is also correctly shown.

As usual, the male mortality somewhat exceeds the female mortality, the number being 2,745.

Table 17.—Deaths in Michigan by sex and age periods, 1908. (Stillbirths excluded).

Ages.	Number of deaths, 1908.			Per cent of deaths at each age to total at all ages.			Per cent of deaths of each sex to total of both sexes.*				Excess of the sexes by number.		Males to 100 females.
	Total.	Males.	Females.	Total.	Males.	Females.	Males.	Females.	Excess. Males.	Excess. Females.	Males.	Females.	
ALL AGES	36,761	19,753	17,008	100.0	100.0	100.0	53.7	46.3	7.4	.....	2,745	.....	116.1
Under 1 year	7,697	4,351	3,346	20.9	22.0	19.7	56.5	43.5	13.0	.....	1,005	.....	130.0
1 year	1,200	656	544	3.3	3.3	3.2	54.7	45.3	9.4	.....	112	.....	120.6
2 years	599	317	282	1.6	1.6	1.7	52.9	47.1	5.8	.....	35	.....	112.4
3 years	249	171	178	0.9	0.9	1.0	49.0	51.0	.....	2.0	.....	7	96.1
4 years	240	125	115	0.7	0.6	0.7	52.1	47.9	4.2	.....	10	.....	108.7
Under 5 years	*10,085*	*5,620*	*4,465*	27.4	28.5	26.3	55.7	44.3	11.4	.....	1,155	.....	125.9
5 to 9 years	753	365	388	2.0	1.8	2.3	48.5	51.5	.....	3.0	.....	23	94.1
10 to 14 years	607	309	298	1.7	1.6	1.8	50.9	49.1	1.8	.....	11	.....	103.7
15 to 19 years	1,038	545	493	2.8	2.8	2.9	52.5	47.5	5.0	.....	52	.....	110.5
20 to 24 years	1,366	711	655	3.7	3.6	3.9	52.0	48.0	4.0	.....	56	.....	108.5
25 to 29 years	1,239	609	630	3.1	3.1	3.7	49.2	50.8	.....	1.6	.....	21	96.7
30 to 34 years	1,227	583	644	3.3	3.0	3.8	47.5	52.5	.....	5.0	.....	61	90.5
35 to 39 years	1,184	582	602	3.2	2.9	3.5	49.2	50.8	.....	1.6	.....	20	96.7
40 to 44 years	1,196	641	555	3.3	3.2	3.3	53.6	46.4	7.2	.....	86	.....	115.5
45 to 49 years	1,389	767	622	3.8	3.9	3.7	55.2	44.8	10.4	.....	145	.....	123.3
50 to 54 years	1,590	877	713	4.3	4.4	4.2	55.2	44.8	10.4	.....	164	.....	123.0
55 to 59 years	1,826	1,012	814	5.0	5.1	4.8	55.4	44.6	10.8	.....	198	.....	124.3
60 to 64 years	2,148	1,185	963	5.8	6.0	5.7	55.2	44.8	10.4	.....	222	.....	123.1
65 to 69 years	2,406	1,310	1,096	6.5	6.6	6.4	54.4	45.6	8.8	.....	214	.....	119.5
70 to 74 years	2,616	1,374	1,242	7.1	7.0	7.3	52.5	47.5	5.0	.....	132	.....	110.6
75 to 79 years	2,610	1,467	1,143	7.1	7.4	6.7	56.2	43.8	12.4	.....	324	.....	128.3
80 years and over	3,440	1,762	1,678	9.4	8.9	9.9	51.2	48.8	2.4	.....	84	.....	105.0
Unknown ages	41	34	7	0.1	0.2	0.4	82.9	17.1	65.8	.....	27	.....	485.7

DEATHS BY SEXES AND AGE PERIODS, 1908.

The data showing the general distribution of deaths returned for the year 1908, distinguishing the sexes and age periods of the decedents is shown in Table 17. The relation of the numbers of deaths at each year under five and at quinquennial age periods up to the age of eighty years are given.

It will be noted that 20.9 per cent of the total number of deaths in the State were under one year of age, and 27.4 per cent in the age period under

Digitized by Google

five years. In other words, over one-fourth of the total number of deaths recorded for the year were those of children under five years of age, the percentage of males being slightly higher than for females.

In order to obtain a more satisfactory statement of the mortality of the sexes by ages, Table 18 has been prepared, showing the estimated population for these ages estimated in the same manner as the total population.

Considered with reference to the sex distribution of the population the death rate of males for the year, 14.6 per 1,000 estimated population, as compared with the rate of females for the year, 13.2 per 1,000 estimated population, represents a relative male mortality of 111 per cent.

Table 18.—Deaths and death rates in Michigan by age periods and sex, 1908. (Stillbirths excluded).

Ages.	Estimated population, 1908.			Deaths, 1908.			Death rates per 1000 estimated population of same age and sex, 1908.			Relative male mortality.*
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
ALL AGES	2,639,050	1,348,404	1,290,646	36,761	19,753	17,008	13.9	14.6	13.2	111
Under 1 year	60,903	30,962	29,941	7,697	4,351	3,346	126.4	140.5	111.8	126
1 year	47,807	24,177	23,630	1,200	656	544	25.1	27.1	23.0	118
2 years	57,493	29,250	28,243	599	317	282	10.4	10.8	10.0	108
3 years	52,668	26,649	26,019	349	171	178	6.6	6.4	6.8	94
4 years	51,772	26,399	25,373	240	125	115	4.6	4.7	4.5	104
Under 5 years	270,643	137,437	133,206	10,085	5,620	4,465	37.3	40.9	33.5	122
5 to 9 years	270,330	137,297	133,033	753	365	388	2.8	2.7	2.9	93
10 to 14 years	280,170	144,374	135,796	607	309	298	2.2	2.1	2.2	95
15 to 19 years	258,052	129,234	128,818	1,038	545	493	4.0	4.2	3.8	111
20 to 24 years	239,489	117,200	122,289	1,366	711	655	5.7	6.1	5.4	113
25 to 29 years	216,140	106,435	109,705	1,239	609	630	5.7	5.7	5.7	100
30 to 34 years	187,086	93,920	93,166	1,227	583	644	6.6	6.2	6.9	90
35 to 39 years	175,549	90,450	85,099	1,184	582	602	6.7	6.2	7.1	87
40 to 44 years	156,025	80,944	75,081	1,196	641	555	7.7	7.9	7.4	107
45 to 49 years	145,589	77,675	67,914	1,389	767	622	9.5	9.9	9.2	108
50 to 54 years	119,206	64,030	55,176	1,590	877	713	13.3	13.7	12.9	106
55 to 59 years	92,745	49,656	43,089	1,826	1,012	814	19.7	20.4	18.9	108
60 to 64 years	83,243	43,811	39,432	2,148	1,185	963	25.8	27.0	24.4	111
65 to 69 years	56,843	29,287	27,556	2,406	1,310	1,096	42.3	44.7	39.8	112
70 to 74 years	43,424	23,094	20,330	2,616	1,374	1,242	60.2	59.5	61.1	97
75 to 79 years	23,027	11,988	11,039	2,610	1,467	1,143	113.3	122.4	103.5	118
80 years and over	18,218	9,653	8,565	3,440	1,762	1,678	188.8	182.5	195.9	93
Unknown ages	3,087	1,727	1,360	41	34	7	13.3	19.7	5.1	386

*Ratio of death rates of males to death rate of females.

Digitized by Google

DEATHS IN CITIES OF MICHIGAN, 1908.

Table 19 shows the total number of deaths reported for the year 1908 from each city of the State, together with the population as given by the State census of 1904. The total urban population of the State, including such small cities as Harrison, 547; Harrisville, 461: North Muskegon, 428; Omer, 460; places which have few of the requisites of a city except the possession of a city charter, is 1,057,303, and the total number of deaths returned from these cities for the year was 17,917. The death rate was 15.7 per 1,000 estimated population.

The group of cities over 50,000 population consists of only two, Detroit with a death rate of 17.2, and Grand Rapids with a death rate of 13.6 for the year. In the cities from 25,000 to 50,000 Jackson shows the highest death rate, 19.7 and Saginaw the lowest, 13.3.

The group of cities from 10,000 to 25,000 population has a rate of 15.8 per 1,000, Traverse City having the highest, 22.1 per 1,000, and Lansing the lowest, 12.4 per 1,000 estimated population.

The group of cities from 5,000 to 10,000 has a rate of 15.4 per 1,000 estimated population. The maximum death rate being for Wyandotte, with a rate of 23.6. The minimum rate is shown for Grand Haven, with a rate of 11.2 per 1,000 estimated population.

Cities under 5,000 population which should hardly be included in the class of cities as usually studied in registration reports show a mortality rate of 14.3 per 1,000 estimated population.

Digitized by Google

Table 19.—Cities of Michigan, grouped in order of population by State census of 1904, with deaths and death rates per 1,000 estimated population. (Stillbirths excluded).

Cities.	Population by State census of 1904.	Deaths returned, 1908.*	Death rates per 1,000 estimated population.
TOTAL CITIES	1,057,808	17,917	15.7
CITIES OVER 50,000	413,309	7,406	16.3
Detroit	317,591	5,997	17.2
Grand Rapids	95,718	1,409	13.6
CITIES FROM 25,000 TO 50,000	142,333	2,232	15.7
Bay City	40,641	571	14.1
Jackson	25,300	501	19.7
Kalamazoo	29,782	634	18.0
Saginaw	46,610	676	13.3
CITIES FROM 10,000 TO 25,000	236,749	3,651	15.3
Adrian	10,680	172	14.7
Alpena	12,400	222	17.1
Ann Arbor	14,599	287	19.5
Battle Creek	22,213	351	13.6
Escanaba	11,098	232	18.3
Flint	14,884	267	16.0
Ironwood	10,019	152	14.7
Ishpeming	11,623	219	21.9
Lansing	20,276	298	12.4
Manistee	12,708	166	14.9
Marquette	10,665	176	15.6
Menominee	11,096	153	16.3
Muskegon	20,897	283	13.5
Pontiac	10,884	230	19.2
Port Huron	20,028	277	13.3
Sault Ste. Marie	11,442	176	14.3
Traverse City	11,237	290	22.1
CITIES FROM 5,000 TO 10,000	120,556	1,956	15.4
Benton Harbor	6,702	130	19.0
Cadillac	6,893	109	14.0
Cheboygan	6,730	102	14.6
Coldwater	6,225	120	19.2
Grand Haven	5,239	64	11.2
Hancock	6,037	137	17.1
Holland	8,966	120	11.8
Ionia	5,222	81	15.5
Iron Mountain	8,585	116	14.6
Ludington	7,259	130	17.7
Monroe	6,128	84	11.6
Mt. Clemens	7,108	124	16.2
Negaunee	6,797	106	15.9
Owosso	9,145	123	12.8
Petoskey	5,186	81	15.9
St. Joseph	5,322	90	16.4
Wyandotte	5,425	134	23.6
Ypsilanti	7,587	105	13.5
CITIES UNDER 5,000	144,356	2,222	14.3
Albion	4,943	64	11.9
Allegan	2,705	75	27.3
Alma	2,566	40	13.0
Au Gres	.....	3	.....
Au Sable	917	7	9.7
Bad Axe	1,423	23	14.3
Beaverton	681	4	5.9
Belding	3,654	42	10.4
Bessemer	3,111	62	26.8
Big Rapids	4,852	96	19.1
Boyne City	2,453	62	15.5
Brown City	676	6	8.0
Charlevoix	2,395	32	11.8
Charlotte	4,726	92	17.2
Clare	1,413	29	19.3
Coleman	990	20	20.7
Corunna	1,601	15	8.9
Croswell	961	20	15.2
Crystal Falls	2,981	57	20.9
Dowagiac	4,404	64	13.7
East Lansing	.....	2	.....
East Tawas	1,830	18	9.4
Eaton Rapids	2,197	37	16.2
Gladstone	3,528	36	9.8
Gladwin	1,091	14	10.0
Grand Ledge	2,439	24	12.5
Greenville	3,421	45	13.0
Harrison	547	11	24.6
Harrisville	461	9	17.3
Hastings	3,558	54	13.7
Hillsdale	4,809	75	13.7
Hudson	2,307	45	20.4
Lapeer	3,460	83	22.0
McBain	610	4	7.8
Mackinac Island	736	9	11.2
Manistique	4,596	65	12.8
Marine City	3,762	58	15.7
Marshall	4,361	63	14.5
Mason	1,955	24	11.5
Midland	2,520	21	7.8
Mt. Pleasant	4,484	54	10.2
Muskegon Heights	1,012	12	11.9
Niles	4,641	82	16.4
North Muskegon	428	6	17.5
Norway	4,864	71	12.8
Omer	460	4	8.7
Onaway	2,408	45	12.5
Rose City	.....	10	.....
Sandusky	729	12	13.6
St. Clair	2,664	41	14.7
St. Ignace	2,083	29	15.3
St. Johns	3,768	41	9.9
St. Louis	2,503	34	11.3
Scottville	818	15	13.9
South Haven	3,767	48	13.6
Standish	949	3	2.9
Stanton	1,120	23	22.9
Sturgis	2,593	40	14.7
Tawas City	1,245	19	15.1
Three Rivers	3,913	50	11.7
West Branch	1,495	26	16.5
Whittemore	.....	0	.....
Yale	1,202	21	16.4
Zeeland	1,570	16	8.8

*Stillbirths excluded.

Digitized by Google

SECTION II.—CAUSES OF DEATHS IN MICHIGAN DURING THE YEAR 1908.

The most important part of a registration report consists of the statistics relating especially to individual causes of death, because, without a knowledge of the prevalence of different diseases, intelligent efforts cannot be made for their restriction and prevention on the part of sanitary authorities; or, if such efforts are made, it cannot be definitely known with what measure of success or failure they have been attended. Accurate vital statistics are considered absolutely essential instruments of modern sanitary progress, and no class of information collected under this head is of such paramount importance as the knowledge of the mortality from individual diseases and groups of diseases.

A tabular exhibition of the deaths and death rates from each cause of death in Michigan for the year 1908 according to the extended form of the Bertillion form of classification may be found in Table 20, and a condensed list, showing the mortality by the geographical sections of the State for the months of the year and also for the various age periods is given in Table 21.

Examination of the deaths recorded in Table 20 will show that many of the causes are quite insignificant as regards number, and that very little sacrifice of statistical completeness would be made by their entire omission or rather inclusion under some more general title. It will also be much more convenient to study an abbreviated list, as the various relations of the mortality in the geographical sections can thus be shown without an undue sacrifice of space.

Digitized by Google

Table 20.—Deaths in Michigan during the year 1908, according to the detailed international classification of causes of death, with rates per 100,000 estimated population.

Classification number.	Causes of death.	Number of deaths, 1908.	Death rates per 100,000 estimated population.
	ALL CAUSES	36,761	1,389.6
	GENERAL DISEASES.		
	I. EPIDEMIC DISEASES	*2,673*	*101.0*
1	Typhoid fever	684	25.9
	Typho-malarial fever	3	0.1
2	Typhus fever	.....	.....
3	Relapsing fever	.....	.....
4	Malarial fever	38	1.4
5	Smallpox	11	0.4
6	Measles	121	4.6
7	Scarlet fever	194	7.3
8	Whooping cough	305	11.5
	Diphtheria	286	10.8
9	Croup	26	1.0
	Membranous croup	31	1.2
10	Influenza	633	23.9
11	Miliary fever	.....	.....
12	Asiatic cholera	.....	.....
13	Cholera nostras	40	1.5
14	Dysentery	192	7.3
15	Bubonic plague	.....	.....
16	Yellow fever	.....	.....
17	Leprosy	.....	.....
18	Erysipelas	99	3.7
	Chicken pox	4	0.2
19	German measles	3	0.1
	Mumps	3	0.1
	II. OTHER GENERAL DISEASES	*6,075*	*229.6*
20	Septicemia	189	7.1
21	Glanders	.....	.....
22	Malignant pustule	.....	.....
23	Rabies	2	0.1
24	Actinomycosis	1	0.0
25	Pellagra	.....	.....
	Tuberculosis	*2,700*	*102.1*
26	Larynx	27	1.0
27	Lungs	2,249	85.0
28	Meninges	137	5.2
29	Abdominal	141	5.3
30	Potts disease	34	1.3
31	Tuberculous abscess	6	0.2
32	White swelling	11	0.4
33	Other organs	45	1.7
34	General	50	1.9
35	Scrofula	6	0.2
36–38	Venereal diseases	118	4.5
	Cancer	*1,921*	*72.6*
39	Mouth	77	2.9
40	Stomach and liver	759	28.7
41	Intestines	220	8.3
42	Genital organs	288	10.9
43	Breast	173	6.5
44	Skin	123	4.6
45	Other organs	281	10.6
46	Tumors	36	1.4
47, 48	Rheumatism	245	9.3
49	Scurvy	3	0.1
50	Diabetes	359	13.6
51	Exophthalmic goiter	60	2.3
52	Addison's disease	13	0.5
53, 54	Anemia, leukemia	304	11.5
55	Other general diseases	46	1.7
56	Alcoholism	66	2.5
57–59	Chronic poisonings	6	0.2

Digitized by Google

Table 20.—Continued.—Deaths in Michigan during the year 1908, according to the detailed international classification of causes of deaths, with rates per 100,000 estimated population.

Classification number.	Causes of death.	Number of deaths, 1908.	Death rates per 100,000 estimated population.
	LOCAL DISEASES.		
	III. Diseases of Nervous System	*4,352*	*164.5*
60	Encephaletis	45	1.7
61	Meningitis	480	18.1
62	Locomotor ataxia	69	2.6
63	Other diseases of spinal cord	125	4.7
64	Apoplexy	1,669	63.1
65	Softening of brain	91	3.4
66	Paralysis	870	32.9
67	General paralysis of insane	129	4.9
68	Other forms of mental diseases	62	2.3
(74)	Other diseases of brain	104	3.9
69	Epilepsy	144	5.4
70,71	Convulsions	454	17.2
72	Tetanus	34	1.3
73–76	Other diseases of nervous system	76	2.9
	IV. Diseases of Circulatory System	*4,653*	*175.9*
77	Pericarditis	28	1.1
78	Endocarditis	192	7.3
79	Heart disease	3,768	142.4
80	Angina pectoris	214	8.1
81	Diseases of arteries	319	12.1
82	Embolism and thrombosis	77	2.9
83	Diseases of veins	9	0.3
84	Diseases of lymphatics	8	0.3
85,86	Other diseases of circulatory system	38	1.4
	V. Diseases of Respiratory System	*3,399*	*128.5*
88	Laryngitis	10	0.4
	Other diseases of larnyx	43	1.6
89	Diseases of thyroid body	12	0.5
90	Acute bronchitis	389	14.7
91	Chronic bronchitis	238	9.0
92	Broncho pneumonia	485	18.3
93	Pneumonia	1,828	69.1
94	Pleurisy	65	2.5
95	Congestion of lungs	132	5.0
96	Gangrene of lungs	7	0.3
97,98	Asthma and emphysema	88	3.3
87,99	Hemorrhage of lungs	33	1.2
	Other diseases of respiratory system	69	2.6
	VI. Diseases of Digestive System	*5,163*	*195.2*
100	Diseases of mouth	28	1.1
101,102	Tonsilitis	20	0.8
	Other diseases of pharynx	32	1.2
103	Ulcer of stomach	96	3.6
104	Gastritis	235	8.9
	Other diseases of stomach	326	12.3
(314)	Dentition	31	1.2
105	Diarrhea and enteritis (under 2 years)	2,200	83.2
106	Diarrhea and enteritis (over 2 years)	532	20.1
108	Hernia	90	3.4
	Obstruction of intestines	293	10.7
107,109	Other diseases of intestines	98	3.7
110	Acute yellow atrophy of liver	32	1.2
111	Hydatid tumor of liver	.....	.....
112	Cirrhosis of liver	284	10.7
113	Biliary calculi	85	3.2
114	Other diseases of liver	176	6.7
115	Diseases of spleen	13	0.5
116	Peritonitis	246	9.3
118	Appendicitis	346	13.1
117	Other diseases of digestive system	10	0.4
	VII. Diseases of Genito-Urinary System	*1,909*	*72.2*
119	Acute nephritis	117	4.4
120	Bright's disease	1,370	51.8
121	Other diseases of kidneys	52	2.0
122	Calculi of urinary tract	14	0.5
123	Diseases of bladder	110	4.2
129	Uterine tumor	43	1.6

Digitized by Google

Table 20.—Concluded.—Deaths in Michigan during the year 1908, according to the detailed international classification of causes of deaths, with rates per 100,000 estimated population.

Classification number.	Causes of death.	Number of deaths, 1908.	Death rates per 100,000 estimated population.
	VII. Diseases of Genito-Urinary System.		
127, 128, 130	Other diseases of uterus	42	1.6
131	Ovarian tumor	26	1.0
124, 126, 132, 133	Diseases of tubes	27	1.0
	Other diseases of genito-urinary system	108	4.1
	VIII. Childbirth	*441*	*16.7*
137	Puerperal septicemia	188	7.1
138	Puerperal convulsion	97	3.7
134, 136, 139, 141	Other causes incident to childbirth	156	5.9
	IX. Diseases of Skin	202	7.6
142	Gangrene	133	5.0
143	Carbuncle	4	0.2
144	Abscess	40	1.5
145	Other diseases of skin	25	0.9
	X. Diseases of Locomotor System	83	3.1
146	Diseases of bones	78	2.9
147	Diseases of joints	5	0.2
148, 149	Other diseases of locomotor system	.....	.....
	XI. Malformations	*486*	*18.4*
150	Hydrocephalus	32	1.2
	Congenital malformations of heart (cyanosis)	299	11.3
	Other congenital malformations	155	5.9
	XII. Early Infancy	*2,385*	*90.2*
151–153	Premature birth	975	36.9
	Congenital debility	1,410	53.3
	XIII. Old Age	*1,627*	*61.5*
154	Old age	1,627	61.5
	XIV. Violence	*2,553*	*96.5*
	Suicide	*386*	*14.6*
155	Poison	143	5.4
156	Asphyxia	13	0.5
157	Hanging	76	2.9
158	Drowning	18	0.7
159	Fire arms	98	3.7
160	Cutting instruments	24	0.9
161	Jumping from high places	.....	.....
162	Crushing	1	0.0
163	Other or unspecified means	13	0.5
	Accidents	*2,101*	*79.5*
164, 165	Fractures and dislocations	176	6.7
167	Burns and scalds	194	7.3
169	Heat and sunstroke	31	1.2
170	Cold and freezing	42	1.6
(171)	Lightning	22	0.8
172	Drowning	361	13.6
174	Inhalation of poisonous gases	23	0.9
175	Other accidental poisoning	102	3.9
	Accidental gunshot wounds	83	3.1
	Injuries by machinery	41	1.5
	Injuries in mines and quarries	129	4.9
166	Railroad accidents and injuries	263	9.9
	Injuries by vehicles and horses	115	4.3
	Injuries by electric cars	78	2.9
	Suffocation	57	2.2
166, 168	Other accidental injuries	319	12.1
(171), 176	Injuries at birth	65	2.6
	Homicide	*66*	*2.4*
176	Homicide	66	2.4
	XV. Ill-Defined Diseases	*760*	*28.7*
177	"Dropsy"	98	3.7
	"Heart failure"	129	4.9
178, 179	Other ill-defined diseases	378	14.4
	Unknown (or unspecified)	155	5.7

Digitized by Google

Table 21.—Causes of death in Michigan, by months and ages.

Line number.	Causes of death, 1908.	Total deaths, 1908.	Rate per 100,000 estimated population.	Months of death, 1908.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	36,761	1,393.0	3,162	3,336	3,462	3,254	2,972	2,572	2,710	3,113	3,375	3,323	2,823	2,659
2	Typhoid fever	687	26.0	32	40	38	36	36	28	42	65	93	109	100	68
3	Malarial fever	38	1.4	.....	4	2	5	1	2	7	2	7	3	2	3
4	Smallpox	11	0.4	3	1	1	2	1	1	.....	2	.....	.....	.....	.....
5	Measles	121	4.6	7	11	9	7	21	10	8	4	4	11	12	17
6	Scarlet fever	194	7.4	35	26	28	26	19	7	8	7	2	13	10	13
7	Whooping cough	305	11.6	20	24	31	43	32	25	25	27	23	27	16	12
8	Diphtheria and croup	343	13.0	46	41	28	20	20	13	16	18	25	38	35	43
9	Influenza	633	24.0	93	185	148	92	42	15	5	6	9	5	13	20
10	Dysentery	192	7.3	2	3	5	2	3	3	12	52	60	37	10	3
11	Erysipelas	99	3.8	8	15	16	15	10	6	4	4	3	2	7	9
12	Other epidemic diseases	50	1.9	.....	2	2	3	.....	2	4	15	12	6	1	3
13	Tuberculosis of lungs	2,249	85.2	193	228	204	219	222	179	195	166	114	175	178	176
14	Other forms of tuberculosis	451	17.1	30	45	52	46	50	47	30	33	33	26	31	28
15	Cancer	1,921	72.8	159	158	177	140	128	181	162	183	145	162	158	168
16	Rheumatism	245	9.3	29	22	36	23	26	12	16	14	21	17	14	15
17	Diabetes	359	13.6	27	35	41	41	18	22	18	30	36	30	29	32
18	Other general diseases	850	32.2	56	72	93	80	82	69	73	76	61	57	63	59
19	Meningitis	480	18.2	29	49	44	46	37	37	42	46	44	45	42	19
20	Apoplexy	1,669	63.2	171	154	150	152	148	130	118	129	120	136	147	114
21	Paralysis	870	33.0	80	80	73	85	70	61	64	73	74	73	67	70
22	Convulsions	454	17.2	28	43	51	48	47	32	37	41	35	31	36	25
23	Other nervous diseases	879	33.3	80	66	76	65	68	77	58	86	79	85	77	62
24	Heart disease	3,768	142.8	340	360	339	347	322	296	271	257	281	300	333	322
25	Other circulatory diseases	885	33.5	80	57	84	91	75	71	70	79	57	76	83	62
26	Bronchitis	627	23.8	79	83	76	88	53	31	18	24	30	47	53	45
27	Bronchopneumonia	485	18.4	66	67	66	60	42	16	18	14	24	30	43	39
28	Pneumonia	1,828	69.3	267	284	254	234	180	73	44	32	63	97	150	150
29	Other respiratory diseases	459	17.4	41	45	48	43	41	35	24	18	38	38	49	39
30	Diseases of stomach	657	24.9	52	53	50	61	45	38	53	52	70	79	44	60
31	Diarrhea and enteritis (under 2 years)	2,201	83.4	47	60	65	60	57	80	206	464	635	392	85	50
32	Diarrhea and enteritis (over 2 years)	532	20.2	29	16	28	28	16	20	45	97	134	86	19	14
33	Hernia and obstruction of bowels	373	14.1	33	28	40	21	32	32	30	35	26	31	31	34
34	Cirrhosis of liver	284	10.8	24	25	24	22	24	25	24	21	28	16	27	24
35	Other liver diseases	293	11.1	26	26	32	33	25	24	17	22	21	22	20	25
36	Peritonitis	246	9.3	22	15	18	26	19	22	15	20	27	25	23	15
37	Appendicitis	346	13.1	20	28	35	34	31	19	27	33	35	27	25	32
38	Other digestive diseases	232	8.8	19	19	31	19	22	10	16	15	21	20	17	23
39	Bright's disease	1,370	51.9	130	100	122	114	123	106	104	114	107	123	107	120
40	Other genito-urinary diseases	539	20.4	52	46	63	41	53	47	37	41	43	42	37	37
41	Puerperal septicemia	188	7.1	21	25	34	14	17	12	6	14	8	8	15	14
42	Other puerperal diseases	252	9.5	17	29	24	26	26	19	30	19	20	12	21	9
43	Skin diseases	202	7.7	19	14	16	19	23	16	11	14	13	22	13	22
44	Diseases locomotor system	83	3.1	12	8	12	5	5	7	2	6	5	9	4	8
45	Malformations	486	18.4	48	50	56	41	40	35	41	36	38	34	33	34
46	Premature birth	975	36.9	79	90	94	80	93	66	98	73	78	75	71	78
47	Congenital debility	1,410	53.4	111	114	145	139	138	99	102	122	126	138	98	78
48	Old age	1,627	61.7	170	165	155	147	121	130	117	84	128	146	138	126
49	Suicides	386	14.6	32	20	33	34	36	32	26	27	53	35	30	28
50	Accidents	2,101	79.6	140	146	150	157	157	193	261	214	174	206	148	155
51	Homicides	66	2.1	5	2	4	2	5	9	6	7	12	8	4	2
52	Causes ill-defined	760	28.8	53	57	59	63	70	50	47	80	81	91	54	55

Digitized by Google

for the State and geographical sections, 1908. State.

Age of decedents, 1908.																							
Age in years under five.					Ages for five year periods.																		
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Line number.
7697	1200	599	349	240	10085	753	607	1038	1366	1239	1227	1184	1196	1389	1590	1826	2148	2406	2616	2610	3440	41	1
7	7	9	5	15	43	43	55	103	105	75	54	42	39	31	22	30	19	9	8	7	2	....	2
1	1	....	....	....	2	3	3	4	2	2	5	1	2	1	....	4	....	1	1	3	4	....	3
3	1	....	....	....	4	3	....	....	....	1	....	....	....	1	....	....	....	....	....	1	1	....	4
28	38	16	5	5	92	19	2	2	1	....	....	1	2	1	....	....	....	....	....	....	1	....	5
13	24	29	23	16	105	56	17	5	3	4	2	1	....	....	1	....	....	....	....	....	....	....	6
206	59	13	13	5	296	5	1	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	7
28	28	41	39	43	179	113	27	8	7	1	3	....	1	3	....	....	....	1	....	....	....	....	8
43	10	7	3	1	64	5	4	4	6	8	14	15	16	15	28	31	38	57	83	109	133	3	9
31	11	17	5	4	68	4	1	1	....	1	1	3	4	2	4	7	8	13	22	23	30	....	10
23	....	1	....	....	24	2	1	3	3	4	2	5	2	1	8	6	8	6	12	6	6	....	11
19	5	1	....	....	25	3	....	....	2	1	2	....	3	1	....	2	3	1	1	2	4	....	12
19	14	9	3	5	50	21	62	200	394	332	280	179	145	131	109	108	71	79	48	26	12	2	13
47	24	16	6	9	102	29	22	37	45	28	32	24	18	24	18	19	17	12	9	12	2	1	14
5	1	3	3	4	16	5	1	4	11	14	41	78	112	168	206	233	281	257	210	166	118	....	15
4	....	1	1	2	8	22	15	14	13	11	10	9	10	15	8	10	31	20	18	22	9	....	16
1	2	6	6	....	15	13	14	11	14	10	17	7	13	18	33	28	46	51	42	14	12	1	17
149	17	7	8	3	184	19	14	25	42	33	52	53	55	48	66	65	65	44	35	24	24	2	18
155	62	38	22	12	289	28	23	28	16	14	15	14	11	8	11	2	5	9	4	2	1	....	19
15	2	2	2	1	22	6	2	7	4	14	22	27	39	75	104	152	202	237	250	250	254	2	20
6	1	1	....	1	9	....	5	4	4	2	9	13	14	24	41	52	88	118	147	148	191	1	21
375	37	13	6	3	434	4	....	4	1	3	3	2	....	....	1	....	....	....	1	....	1	....	22
54	9	3	10	7	83	20	25	30	42	27	43	51	48	70	74	74	64	64	67	51	44	2	23
71	5	3	3	6	88	24	30	44	56	66	76	99	115	161	219	284	406	471	576	520	533	....	24
7	5	9	6	....	27	10	14	10	16	23	19	14	28	34	53	64	93	95	135	123	123	4	25
214	46	15	6	4	285	8	1	3	7	2	3	4	2	5	15	20	25	37	57	60	93	....	26
213	70	25	11	5	324	10	7	2	2	6	4	5	6	7	8	10	12	17	19	15	31	....	27
357	94	45	22	13	531	34	28	62	65	48	68	76	73	97	85	85	115	124	119	108	109	1	28
73	15	16	8	4	116	14	6	14	20	14	15	20	22	11	20	28	28	33	31	31	35	1	29
223	17	9	7	3	259	10	8	2	10	12	11	12	20	23	28	41	32	45	47	36	61	....	30
1796	405	....	....	....	2201	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	31
....	....	156	47	11	214	32	5	11	11	11	8	7	10	10	11	21	21	30	40	42	48	....	32
50	8	8	5	5	76	8	10	10	10	18	9	14	20	12	19	33	24	29	27	31	23	....	33
2	3	....	....	....	5	4	....	1	1	3	2	8	15	19	37	31	44	45	25	27	17	....	34
11	5	1	....	....	17	....	1	6	9	10	9	19	12	18	26	28	32	33	26	24	23	....	35
14	6	5	4	3	32	12	16	23	28	31	17	16	8	12	11	10	4	9	5	5	7	....	36
....	....	1	2	3	6	42	47	74	39	30	31	15	12	9	14	6	6	5	6	3	1	....	37
53	22	2	1	4	82	12	5	3	7	4	13	7	6	12	9	12	7	15	11	15	12	....	38
13	6	4	1	2	26	14	8	21	24	36	39	52	67	88	102	133	147	167	160	147	139	....	39
16	5	3	5	6	35	3	2	14	22	31	31	31	29	28	27	21	38	39	50	52	86	....	40
....	....	....	....	....	....	....	....	22	51	38	31	26	14	5	....	1	....	....	....	....	....	....	41
....	....	....	....	....	....	....	....	19	56	65	39	47	22	4	....	....	....	....	....	....	....	....	42
18	3	1	....	2	24	1	1	2	1	4	2	7	5	8	4	7	7	23	30	31	45	....	43
22	9	3	3	1	38	5	5	5	1	1	1	1	1	1	3	5	3	5	6	2	....	....	44
471	10	1	1	....	483	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	45
975	....	....	....	....	975	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
1410	....	....	....	....	1410	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	71	163	344	1048	1	48
....	....	....	....	....	....	....	....	14	29	31	26	41	42	43	39	43	27	13	15	14	7	2	49
168	67	52	49	31	367	73	105	166	167	157	147	119	104	116	93	83	75	72	68	71	104	14	50
4	1	....	....	....	5	3	2	2	8	6	9	7	7	8	1	4	1	....	1	....	....	2	51
284	45	7	8	1	345	9	11	12	10	7	10	12	22	21	32	33	55	49	41	43	46	2	52

Digitized by Google

Table 21, Continued.—Causes of death in Michigan, by months and ages,

Line number.	Causes of death, 1908.	Total deaths, 1908.	Rate per 100,000 estimated population.	Months of death, 1908.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	4,163	1437.1	312	352	368	343	336	256	280	399	481	447	290	299
2	Typhoid fever	90	31.1	4	3	7	10	4	6	5	6	9	19	10	7
3	Malarial fever	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Smallpox	1	0.3	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
5	Measles	70	24.2	2	7	4	4	12	6	7	3	4	10	6	5
6	Scarlet fever	30	10.4	6	9	4	6	2	.....	1	.....	.....	1	1	.....
7	Whooping cough	18	6.2	3	1	2	1	1	.....	2	1	2	2	1	2
8	Diphtheria and croup	117	40.4	15	8	11	6	10	5	7	7	5	17	14	12
9	Influenza	40	13.8	5	12	7	7	3	1	1	3	.....	1	.....	.....
10	Dysentery	25	8.6	.....	2	.....	.....	1	1	2	5	9	4	.....	1
11	Erysipelas	13	4.5	2	2	2	3	1	1	.....	.....	1	.....	1	.....
12	Other epidemic diseases	13	4.5	.....	1	.....	1	.....	.....	1	5	4	1	.....	.....
13	Tuberculosis of lungs	286	98.7	23	26	22	31	30	21	26	17	14	25	24	27
14	Other forms of tuberculosis	72	24.9	7	7	8	12	5	4	4	6	6	5	5	3
15	Cancer	142	49.0	14	14	16	5	7	8	14	15	9	17	9	14
16	Rheumatism	28	9.7	3	3	4	3	6	.....	.....	1	2	2	3	1
17	Diabetes	25	8.6	2	4	3	3	2	1	.....	2	3	2	2	1
18	Other general diseases	78	26.9	4	4	10	6	13	7	7	4	3	2	5	13
19	Meningitis	76	26.2	5	5	7	5	5	10	9	5	7	8	7	3
20	Apoplexy	85	29.3	7	14	6	6	8	7	3	7	5	7	9	6
21	Paralysis	33	11.4	4	3	6	2	4	2	5	1	2	1	2	1
22	Convulsions	74	25.5	3	5	8	8	9	3	4	9	5	7	9	4
23	Other nervous diseases	69	23.8	4	3	9	6	6	3	3	11	7	6	8	3
24	Heart disease	196	67.7	19	19	14	27	11	10	12	14	18	14	23	15
25	Other circulatory diseases	41	14.2	4	2	4	2	3	4	3	6	5	6	1	1
26	Bronchitis	101	34.9	15	13	11	9	10	.....	3	5	4	13	7	11
27	Bronchopneumonia	78	26.9	8	9	9	9	2	2	6	7	4	6	7	9
28	Pneumonia	228	78.7	35	36	20	23	21	15	7	9	10	11	18	23
29	Other respiratory diseases	49	16.9	3	4	4	3	5	6	4	1	8	4	3	4
30	Diseases of stomach	44	15.2	2	3	3	3	4	4	4	2	9	5	3	2
31	Diarrhea and enteritis (under 2 years)	544	187.8	13	18	19	13	14	11	26	104	188	102	19	17
32	Diarrhea and enteritis (over 2 years)	74	25.5	1	1	5	5	1	4	8	13	23	10	2	1
33	Hernia and obstruction of bowels	27	9.3	2	2	1	1	4	3	1	3	1	4	2	3
34	Cirrhosis of liver	28	9.7	2	2	5	3	1	1	4	3	2	1	3	1
35	Other liver diseases	18	6.2	1	4	6	1	.....	1	.....	1	.....	2	1	1
36	Peritonitis	25	8.6	1	1	1	4	2	3	2	2	5	1	2	1
37	Appendicitis	48	16.6	4	2	7	4	4	2	2	6	6	5	3	3
38	Other digestive diseases	36	12.4	5	2	5	7	2	1	1	1	2	4	3	3
39	Bright's disease	72	24.9	3	10	8	4	10	3	4	5	6	4	6	9
40	Other genito-urinary diseases	44	15.2	3	6	7	3	2	5	1	1	3	6	3	4
41	Puerperal septicemia	16	5.5	2	.....	2	2	1	.....	.....	4	2	1	1	1
42	Other puerperal diseases	27	9.3	1	3	3	3	5	1	2	2	3	.....	3	1
43	Skin diseases	9	3.1	.....	.....	.....	2	1	2	.....	1	1	.....	1	1
44	Diseases locomotor system	12	4.1	1	.....	2	2	.....	1	1	2	.....	1	1	1
45	Malformations	48	16.6	5	2	6	3	7	7	3	5	3	4	3	.....
46	Premature birth	147	50.7	8	15	17	12	15	8	11	12	14	12	8	15
47	Congenital debility	205	70.8	16	23	14	23	21	16	11	19	13	23	16	10
48	Old age	85	29.3	10	7	9	5	10	6	3	6	7	10	3	9
49	Suicides	42	14.5	.....	4	3	4	8	4	2	1	.....	4	7	5
50	Accidents	397	137.0	26	20	32	29	35	44	51	41	27	43	21	28
51	Homicides	11	3.8	1	.....	1	.....	1	1	2	1	2	1	.....	1
52	Causes ill-defined	126	43.5	8	11	13	12	7	5	5	14	18	13	4	16

Digitized by Google

for the State and geographical sections, 1908. Upper Peninsula.

Age of decedents, 1908.																						
Age in years under five.					Ages for five year periods.																	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Line number.
1349	252	122	63	57	1843	145	93	150	190	186	162	142	154	150	135	142	143	138	116	118	144	12	1
.....	1	....	1	6	8	5	4	13	19	13	8	4	7	1	1	4	2	1	....	....	....	....	2
.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3
.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	4
19	25	8	2	2	56	11	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	5
4	3	7	4	1	19	8	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	6
12	4	1	....	....	17	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	7
9	9	15	13	15	61	36	12	4	4	....	....	....	....	....	....	....	....	....	....	....	....	....	8
5	....	2	....	....	7	....	1	....	....	1	2	1	4	1	4	1	1	2	6	2	7	....	9
8	1	3	....	1	13	....	....	....	....	1	....	1	2	....	....	1	1	1	....	1	4	....	10
4	....	....	....	....	4	1	....	....	....	2	....	1	....	....	1	....	2	....	....	2	....	....	11
6	2	....	....	....	8	1	....	....	....	1	....	....	1	....	....	....	1	1	....	....	....	....	12
6	2	1	1	3	13	7	14	30	52	36	31	17	19	19	12	9	11	8	5	2	....	1	13
12	8	3	....	1	24	7	3	4	3	5	7	1	3	6	2	2	2	1	....	1	....	1	14
.....	....	1	....	2	3	1	....	....	2	1	....	4	12	15	15	18	21	18	14	9	9	....	15
1	....	....	1	....	2	3	4	2	....	2	3	....	2	2	1	....	4	1	....	2	....	....	16
.....	....	....	1	....	1	1	1	2	3	....	2	....	2	2	....	....	3	3	1	2	2	....	17
15	5	2	2	1	25	2	1	....	3	7	4	6	7	4	6	3	3	2	1	2	....	2	18
25	12	2	4	4	47	8	6	4	1	2	4	1	1	....	....	....	1	1	....	....	....	....	19
.....	....	....	....	....	....	....	....	....	....	1	1	2	2	7	7	15	9	15	8	8	10	....	20
2	....	....	....	....	2	....	....	....	....	....	....	2	....	1	2	4	4	4	5	7	2	....	21
65	4	2	1	....	72	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	22
6	....	....	1	1	8	....	....	2	5	....	4	7	7	8	7	4	6	5	....	4	1	1	23
3	....	1	....	....	4	4	3	6	5	11	8	9	6	11	16	23	28	22	13	17	10	....	24
2	1	....	1	....	4	1	1	1	2	1	2	....	4	....	3	2	1	3	6	3	7	....	25
57	7	7	1	1	73	1	....	....	3	....	1	....	1	1	1	1	2	3	4	6	4	....	26
39	20	7	2	2	70	1	3	1	1	....	....	....	1	1	....	....	....	....	....	....	....	....	27
46	20	10	4	2	82	3	8	11	6	11	12	13	14	10	9	7	12	4	11	6	9	....	28
10	3	3	1	....	17	3	....	1	2	....	3	2	3	1	3	5	2	2	3	1	1	....	29
23	4	1	2	1	31	....	....	....	1	....	1	1	2	....	2	1	1	1	1	1	1	....	30
453	91	....	....	....	544	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	31
.....	....	31	6	2	39	6	....	2	1	1	....	....	1	2	2	1	2	6	4	4	3	....	32
7	1	1	....	2	11	1	2	....	....	....	....	1	2	1	3	2	....	3	1	....	....	....	33
.....	1	....	....	....	1	....	....	....	....	....	....	....	1	3	7	6	2	2	3	1	2	....	34
.....	1	....	....	....	1	....	....	....	1	....	....	3	2	2	1	3	....	2	2	1	....	....	35
2	1	1	1	....	5	....	2	3	....	6	3	1	2	2	1	....	....	....	....	....	....	....	36
.....	....	1	....	1	2	10	5	11	3	6	4	3	2	....	....	....	1	....	1	....	....	....	37
19	3	....	....	1	23	1	2	....	....	2	1	....	1	2	....	1	....	2	1	....	....	....	38
.....	....	....	....	....	....	5	1	3	2	6	4	4	5	7	7	6	6	6	5	4	1	....	39
4	....	1	....	1	6	2	1	2	3	2	2	5	1	2	1	2	4	2	3	2	4	....	40
.....	....	....	....	....	....	....	....	4	4	2	2	3	1	....	....	....	....	....	....	....	....	....	41
.....	....	....	....	....	....	....	....	3	4	6	5	2	6	1	....	....	....	....	....	....	....	....	42
2	1	....	....	....	3	....	....	....	....	....	....	....	....	....	....	....	....	1	1	3	1	....	43
3	3	1	....	....	7	2	....	....	....	1	....	....	....	....	....	2	....	....	....	....	....	....	44
45	3	....	....	....	48	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	45
147	....	....	....	....	147	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
205	....	....	....	....	205	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	10	17	54	....	48
.....	....	....	....	....	....	....	....	1	2	9	....	7	6	4	4	5	1	2	....	....	....	1	49
18	9	7	11	6	51	11	14	39	55	48	43	36	23	23	13	9	7	8	3	5	5	4	50
.....	....	....	....	....	....	1	....	....	1	....	2	1	1	3	....	....	....	....	....	....	....	2	51
65	7	3	3	1	79	1	2	1	....	....	2	4	....	8	4	5	3	2	4	5	6	....	52

Digitized by Google

Table 21, Continued.—Causes of death in Michigan, by months and ages.

Line number.	Causes of death, 1908.	Total deaths, 1908.	Rate per 100,000 estimated population.	Months of death, 1908.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	4,420	1,275.7	352	396	394	357	380	314	302	380	477	463	324	281
2	Typhoid fever	105	30.3	4	10	.....	4	4	3	5	7	17	23	20	8
3	Malarial fever	4	1.2	.....	.....	.....	1	.....	.....	.....	.....	1	1	1	.....
4	Smallpox	3	0.9	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5	Measles	13	3.8	.....	1	.....	.....	4	3	.....	.....	.....	1	2	2
6	Scarlet fever	19	5.5	4	3	1	5	1	.....	2	.....	.....	.....	1	2
7	Whooping cough	51	14.7	1	1	4	3	6	.....	3	7	4	11	7	4
8	Diphtheria and croup	48	13.9	12	9	3	3	2	2	2	2	3	1	2	7
9	Influenza	79	22.8	8	18	18	16	6	3	.....	.....	2	1	3	4
10	Dysentery	28	8.1	.....	.....	1	.....	2	.....	2	9	7	6	1	.....
11	Erysipelas	12	3.5	1	4	2	1	.....	2	.....	.....	.....	.....	1	1
12	Other epidemic diseases	8	2.3	.....	.....	2	.....	.....	1	.....	1	1	3	.....	.....
13	Tuberculosis of lungs	279	80.5	22	25	36	30	32	27	21	23	13	14	22	14
14	Other forms of tuberlosis	47	13.6	1	6	4	3	8	4	2	4	4	6	2	3
15	Cancer	199	57.4	14	22	14	13	10	16	16	22	19	15	13	25
16	Rheumatism	34	10.8	3	.....	6	3	4	1	6	1	2	3	1	4
17	Diabetes	38	11.0	3	5	7	4	2	1	3	6	1	1	1	4
18	Other general diseases	88	25.4	9	8	4	6	9	9	3	9	7	4	14	6
19	Meningitis	51	14.7	1	6	6	6	2	4	2	10	5	6	3	.....
20	Apoplexy	148	42.7	15	13	9	10	16	12	10	12	14	15	15	7
21	Paralysis	90	26.0	5	11	6	11	7	6	5	8	8	9	7	7
22	Convulsions	49	14.1	1	5	5	4	5	6	4	3	6	6	2	2
23	Other nervous diseases	127	36.7	11	9	9	9	9	13	10	11	14	11	13	8
24	Heart disease	354	102.2	34	34	30	26	34	25	35	25	29	27	30	25
25	Other circulatory diseases	76	21.9	7	9	8	6	10	6	5	4	3	6	5	7
26	Bronchitis	79	22.8	9	9	5	16	15	4	4	.....	1	7	4	5
27	Bronchopneumonia	51	14.7	8	5	4	7	6	2	3	.....	5	2	5	4
28	Pneumonia	215	62.0	28	29	28	30	32	8	2	5	6	7	17	23
29	Other respiratory diseases	62	17.9	4	7	7	6	5	6	5	2	6	4	6	4
30	Diseases of stomach	82	23.7	6	6	8	7	4	5	7	4	5	14	7	9
31	Diarrhea and enteritis (under 2 years)	353	101.9	7	10	8	5	10	6	22	62	130	74	14	5
32	Diarrhea and enteritis over (2 years)	100	28.9	3	3	5	6	4	6	6	24	28	11	2	2
33	Hernia and obstruction of bowels	34	10.8	5	2	4	3	4	3	4	2	2	3	2	.....
34	Cirrhosis of liver	23	6.6	.....	1	.....	3	2	10	4	2	1	.....	.....	.....
35	Other liver diseases	32	9.2	3	2	6	2	3	4	3	2	2	1	2	2
36	Peritonitis	32	9.2	8	.....	2	3	1	3	2	3	3	2	2	3
37	Appendicitis	35	10.1	2	6	4	1	.....	2	2	3	4	3	3	5
38	Other digestive diseases	21	6.1	1	.....	6	.....	4	2	2	1	1	2	1	1
39	Bright's disease	159	45.9	18	8	17	10	13	15	10	14	15	14	14	11
40	Other genito-urinary diseases	55	15.9	7	3	4	3	5	5	3	1	11	7	2	4
41	Puerperal septicemia	39	11.3	5	4	2	3	7	2	4	3	3	2	3	1
42	Other puerperal diseases	37	10.7	2	6	3	2	5	2	5	3	2	5	2	.....
43	Skin diseases	22	6.3	3	2	4	.....	1	2	1	2	.....	4	1	2
44	Diseases locomotor system	11	3.2	3	2	2	.....	.....	.....	.....	1	1	2	.....	.....
45	Malformations	79	22.8	4	13	14	6	5	4	6	1	5	9	5	7
46	Premature birth	147	42.4	13	10	14	15	13	12	15	8	10	16	13	8
47	Congenital debility	182	52.5	15	13	20	19	17	15	14	14	22	19	7	7
48	Old age	183	52.8	12	17	25	16	14	13	9	11	18	18	21	9
49	Suicides	35	10.1	.....	2	2	2	4	3	2	3	10	3	2	2
50	Accidents	276	79.7	19	23	16	19	19	23	23	31	19	49	15	20
51	Homicides	8	2.3	1	.....	.....	.....	.....	6	.....	.....	1	.....	.....	.....
52	Causes ill-defined	118	34.1	8	13	9	9	14	7	8	14	6	15	8	7

Digitized by Google

for the State and geographical sections, 1908. Northern counties.

Age of decedents, 1908.																						
Age in years under five.					Ages for five year periods.																	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Line number.
1097	201	102	56	41	1497	101	91	163	177	148	124	158	147	142	160	210	257	267	241	248	285	4	1
.....	2	4	....	4	10	8	12	20	9	9	9	5	6	4	3	6	4	....	....	....	....	....	2
.....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	1	....	....	....	....	1	....	3
1	....	....	....	....	1	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	4
4	4	2	....	....	10	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5
1	5	3	2	1	12	3	3	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	6
31	10	1	5	1	48	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	7
3	....	9	3	5	20	21	3	2	1	....	1	....	....	....	....	....	....	....	....	....	....	....	8
13	4	1	2	....	20	....	....	....	1	2	1	....	1	4	2	4	7	4	8	17	8	....	9
4	2	2	1	....	9	....	....	....	....	....	....	1	1	....	1	3	....	3	5	3	2	....	10
3	....	....	....	....	3	....	....	1	1	....	2	....	1	....	3	....	....	....	....	....	1	....	11
3	....	1	....	....	4	....	....	....	....	....	1	....	....	....	....	1	....	....	1	....	1	....	12
.....	4	2	....	....	6	1	6	29	43	41	29	28	22	11	11	21	14	10	3	1	2	1	13
3	1	1	2	3	10	....	7	7	4	3	1	3	1	2	2	1	3	....	2	1	....	....	14
2	....	....	....	....	2	2	1	2	1	1	3	11	16	19	20	22	33	28	13	13	12	....	15
2	....	....	....	1	3	3	1	4	3	1	....	2	....	1	2	3	2	3	3	2	1	....	16
.....	....	1	1	....	2	....	5	1	1	1	2	3	....	1	1	3	5	8	4	1	....	....	17
13	5	....	....	....	18	3	3	4	7	2	4	8	4	7	6	6	4	5	3	1	3	....	18
16	11	6	1	1	35	4	4	1	1	....	....	....	1	1	2	....	1	1	....	....	....	....	19
2	....	....	....	1	3	1	....	3	....	1	2	2	3	4	8	17	24	18	19	22	19	2	20
.....	....	1	....	1	2	....	....	1	....	....	1	....	1	2	2	7	10	16	15	18	15	....	21
40	4	2	....	1	47	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	22
11	4	1	2	1	19	3	3	6	2	6	6	12	12	10	11	9	14	5	3	3	3	....	23
7	1	....	....	....	8	3	2	4	6	3	9	14	11	11	20	32	43	54	53	49	32	....	24
1	....	2	1	....	4	1	2	1	3	2	....	4	4	2	7	3	7	7	12	5	12	....	25
32	12	3	1	1	49	....	....	1	2	....	....	1	....	....	1	4	2	3	7	5	4	....	26
21	7	3	3	....	34	1	2	....	....	....	....	2	....	1	1	3	1	4	1	....	1	....	27
47	13	5	2	2	69	2	2	10	8	7	10	2	9	16	10	11	21	11	9	13	5	....	28
15	....	1	....	3	19	1	....	5	1	1	1	3	3	1	2	2	5	6	3	5	4	....	29
35	4	1	1	....	41	....	1	....	2	1	....	1	1	3	2	7	3	6	9	2	3	....	30
274	79	....	....	....	353	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	31
.....	....	38	15	5	58	2	1	2	3	1	1	1	....	1	3	5	3	4	3	6	6	....	32
6	2	1	....	....	9	1	....	3	3	2	....	1	2	3	1	2	3	1	1	1	1	....	33
.....	1	....	....	....	1	....	....	....	....	....	....	....	2	1	3	....	6	7	2	....	1	....	34
3	....	1	....	....	4	....	1	1	1	2	1	3	....	2	3	2	4	2	2	3	1	....	35
1	2	....	1	....	4	5	3	3	3	5	1	2	1	....	2	2	....	1	....	....	....	....	36
.....	....	....	....	....	....	7	7	5	3	4	2	1	2	....	1	1	....	1	1	....	....	....	37
3	2	....	1	2	8	3	1	....	....	....	1	....	....	....	1	4	....	....	....	3	....	....	38
2	1	1	....	....	4	2	2	4	7	4	1	7	11	9	9	11	17	18	24	15	14	....	39
2	1	....	2	....	5	1	1	3	....	7	2	2	8	3	1	2	4	4	4	4	4	....	40
.....	....	....	....	....	....	....	....	3	16	6	5	5	2	2	....	....	....	....	....	....	....	....	41
.....	....	....	....	....	....	....	....	1	9	11	4	10	2	....	....	....	....	....	....	....	....	....	42
2	1	1	....	....	4	....	....	....	....	....	....	1	1	....	....	1	....	5	4	1	5	....	43
5	1	....	....	....	6	2	1	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	44
78	1	....	....	....	79	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	45
147	....	....	....	....	147	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
182	....	....	....	....	182	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	10	22	41	110	....	48
.....	....	....	....	....	....	....	....	2	3	2	3	4	2	3	4	4	2	3	1	1	1	....	49
26	11	8	9	8	62	10	12	29	30	23	16	18	14	14	12	5	11	8	1	5	6	....	50
.....	1	....	....	....	1	2	2	1	....	....	....	1	....	1	....	....	....	....	....	....	....	....	51
56	5	....	1	....	62	2	2	2	2	....	2	....	3	2	3	5	4	11	3	7	7	1	52

Digitized by Google

Table 21, Continued.—Causes of death in Michigan, by months and ages.

Line number.	Causes of death, 1908.	Total deaths, 1908.	Rate per 100,000 estimated population.	Months of death, 1908. Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	5,610	1,215.1	484	479	531	500	506	343	440	445	528	522	425	407
2	Typhoid fever	124	26.9	3	2	6	6	8	11	5	14	20	21	13	15
3	Malarial fever	7	1.5	.....	1	1	1	.....	.....	2	.....	1	.....	.....	1
4	Smallpox	3	0.6	1	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....
5	Measles	6	1.3	1	2	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
6	Scarlet fever	33	7.1	4	1	4	2	5	1	5	3	.....	2	3	3
7	Whooping cough	56	12.1	2	2	1	4	7	8	5	6	6	7	6	2
8	Diphtheria and croup	37	8.0	6	8	3	3	2	.....	1	1	4	1	3	5
9	Influenza	114	24.7	16	33	27	18	10	2	1	2	1	.....	1	3
10	Dysentery	26	5.6	1	1	.....	.....	.....	1	2	4	11	4	2	.....
11	Erysipelas	18	3.9	2	3	.....	3	2	.....	1	2	.....	1	1	3
12	Other epidemic diseases	9	1.9	.....	.....	.....	1	.....	1	1	4	2	.....	.....	.....
13	Tuberculosis of lungs	335	72.6	29	33	36	26	41	21	25	25	17	36	20	26
14	Other forms of tuber'losis	75	16.2	8	4	8	5	7	7	8	5	9	3	5	6
15	Cancer	289	62.6	23	21	30	19	21	16	25	32	23	36	20	23
16	Rheumatism	43	9.3	3	3	5	3	3	3	4	5	5	3	2	4
17	Diabetes	51	11.0	4	4	7	7	6	2	.....	2	4	7	4	4
18	Other general diseases	125	27.3	11	10	11	14	17	9	14	11	8	4	11	5
19	Meningitis	95	20.6	6	7	5	7	7	5	10	12	9	13	11	3
20	Apoplexy	246	53.3	17	21	21	26	23	18	12	25	19	18	26	20
21	Paralysis	125	27.1	9	12	10	12	7	7	11	9	14	10	14	10
22	Convulsions	67	14.5	8	5	6	8	11	6	8	4	5	.....	3	3
23	Other nervous diseases	117	25.3	9	15	12	7	6	13	11	10	11	11	6	6
24	Heart disease	589	127.6	58	43	62	58	51	43	55	32	27	52	57	51
25	Other circulatory diseases	125	27.1	10	7	10	13	13	11	11	15	7	9	11	8
26	Bronchitis	112	24.3	16	8	12	12	9	10	2	5	6	11	9	12
27	Bronchopneumonia	67	14.5	8	5	7	11	10	3	1	2	2	4	7	7
28	Pneumonia	295	63.9	52	36	46	42	27	8	10	1	9	20	23	21
29	Other respiratory diseases	82	17.8	7	10	10	7	6	4	5	2	7	5	6	13
30	Diseases of stomach	129	27.9	14	8	6	13	12	4	17	9	10	15	10	11
31	Diarrhea and enteritis (under 2 years)	274	59.3	4	13	8	3	6	8	17	40	105	49	14	7
32	Diarrhea and enteritis (over 2 years)	76	16.5	3	.....	1	1	4	1	4	11	27	20	3	1
33	Hernia and obstruction of bowels	49	10.6	4	3	3	4	2	3	4	6	6	6	4	4
34	Cirrhosis of liver	37	8.0	1	2	3	3	4	2	5	4	3	3	6	1
35	Other liver diseases	47	10.2	4	4	6	5	6	3	.....	4	6	4	2	3
36	Peritonitis	34	7.4	2	1	2	4	3	5	2	4	5	3	1	2
37	Appendicitis	62	13.4	1	6	2	8	7	4	7	6	6	6	3	6
38	Other digestive diseases	28	6.1	4	2	2	1	2	3	2	2	4	4	1	1
39	Bright's disease	228	49.4	27	13	18	22	25	15	23	17	14	17	19	18
40	Other genito-uri'y diseases	81	17.5	7	9	8	7	13	5	10	6	4	7	2	3
41	Puerperal septicemia	34	7.4	2	5	9	4	2	2	.....	.....	1	.....	5	4
42	Other puerperal diseases	38	8.2	1	6	2	6	6	2	3	2	4	1	3	2
43	Skin diseases	43	9.3	3	1	4	7	8	1	1	5	3	2	3	5
44	Diseases locomotor system	12	2.6	2	1	2	.....	1	.....	.....	1	1	2	1	1
45	Malformations	82	17.8	16	10	5	4	6	4	7	9	7	3	3	8
46	Premature birth	155	33.6	9	18	14	9	19	5	18	11	11	18	10	13
47	Congenital debility	182	39.4	9	16	27	16	22	14	8	13	21	15	11	10
48	Old age	290	62.8	26	30	29	24	20	15	24	21	25	26	25	25
49	Suicides	56	12.1	8	4	5	3	3	4	6	6	6	6	1	4
50	Accidents	281	60.9	16	22	21	32	21	22	39	22	21	22	26	17
51	Homicides	5	1.1	.....	.....	1	.....	1	.....	.....	1	1	1	.....	.....
52	Causes ill-defined	116	25.1	7	8	10	8	14	11	8	11	10	14	8	7

Digitized by Google

for the State and geographical sections, 1908. Central counties.

Age of decedents, 1908.																						
Age in years under five.					Ages for five year periods.																	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Line number.
1107	195	91	63	30	1486	131	117	178	211	152	168	153	140	188	231	297	351	382	473	431	515	6	1
4	....	1	2	1	8	6	16	20	14	16	6	5	7	4	3	7	4	4	2	2	....	....	2
....	1	....	....	....	1	1	2	....	....	1	1	....	1	....	....	....	....	....	....	....	....	....	3
1	1	....	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4
1	1	....	....	....	2	1	....	....	....	....	....	1	1	....	....	....	....	....	....	....	1	....	5
3	3	2	3	1	12	12	6	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	6
38	13	2	2	1	56	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	7
5	5	2	5	5	22	9	3	....	1	1	....	....	1	....	....	....	....	....	....	....	....	....	8
8	2	1	....	1	12	2	....	1	1	....	3	3	2	1	3	7	8	12	13	20	24	2	9
6	3	3	1	....	13	1	....	....	....	....	....	....	....	....	1	....	1	2	1	4	3	....	10
5	....	1	....	....	6	1	....	....	1	....	....	1	....	....	2	2	....	1	2	1	1	....	11
4	1	....	....	....	5	1	....	....	1	....	....	....	1	....	....	....	....	....	....	1	....	....	12
1	1	1	1	1	5	6	12	33	69	44	46	25	13	20	14	12	10	11	10	2	3	....	13
5	4	2	....	2	13	9	2	8	12	3	4	7	4	2	2	4	2	2	....	1	....	....	14
3	....	1	....	1	5	1	....	....	1	3	7	18	8	25	22	42	46	37	35	28	11	....	15
....	....	....	....	1	1	5	2	2	3	1	2	2	2	....	1	1	7	5	2	2	5	....	16
....	1	1	1	....	3	2	1	2	4	....	4	1	3	2	3	7	4	7	7	1	....	....	17
3	3	1	2	....	9	1	3	4	9	3	9	4	8	9	11	12	19	13	....	3	2	....	18
36	12	10	6	....	64	6	4	5	2	5	....	1	1	1	2	....	2	....	1	1	....	....	19
1	....	....	....	....	1	1	....	....	1	1	3	6	6	12	14	18	37	38	41	37	30	....	20
....	....	....	....	....	....	....	2	1	....	....	2	....	2	3	7	6	13	13	29	15	32	....	21
50	8	3	3	....	64	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	1	....	22
15	2	1	3	2	23	5	3	7	8	4	7	6	1	6	7	10	....	8	9	5	2	....	23
13	....	....	....	3	16	5	6	8	8	11	8	12	13	21	35	48	66	60	108	93	71	....	24
....	....	2	....	....	2	....	2	1	3	4	....	2	1	6	8	13	19	14	21	21	8	....	25
32	8	2	1	....	43	....	....	....	....	....	....	1	....	....	6	4	6	6	17	15	14	....	26
32	8	2	2	1	45	....	1	....	....	....	....	1	....	....	1	....	4	3	5	2	5	....	27
55	17	6	5	....	83	6	5	13	7	5	5	13	7	15	22	16	14	23	18	22	20	1	28
17	2	4	5	....	28	5	2	....	3	....	1	1	2	2	1	8	8	9	3	3	6	....	29
50	2	3	1	1	57	6	....	1	2	....	....	3	3	2	5	7	3	11	8	9	12	....	30
210	64	....	....	....	274	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	31
....	....	21	10	....	31	7	1	2	2	....	....	....	1	2	2	2	1	4	8	5	8	....	32
7	2	1	1	1	12	1	2	1	....	....	1	1	2	2	2	5	2	7	7	3	1	....	33
1	1	....	....	....	2	....	....	....	....	1	1	....	3	1	4	4	4	10	4	1	2	....	34
1	....	....	....	....	1	....	....	2	3	2	....	....	2	4	5	4	7	4	4	5	4	....	35
....	1	....	2	1	4	4	5	4	4	....	3	2	1	....	....	1	1	2	....	2	1	....	36
....	....	....	....	....	....	4	9	21	2	2	7	4	2	3	4	....	2	1	....	1	....	....	37
5	4	....	....	....	9	2	1	2	2	....	....	....	1	....	2	2	....	2	2	1	2	....	38
4	1	2	....	1	8	1	1	2	2	6	6	7	11	16	14	23	23	30	25	25	38	....	39
2	2	....	....	2	6	....	....	....	3	5	6	4	4	2	4	1	5	5	13	10	13	....	40
....	....	....	....	....	....	....	....	2	10	8	8	3	2	....	....	1	....	....	....	....	....	....	41
....	....	....	....	....	....	....	....	7	9	8	3	5	3	3	....	....	....	....	....	....	....	....	42
3	1	....	....	....	4	1	....	2	....	2	....	1	....	3	1	1	1	....	3	8	10	....	43
4	....	....	....	....	4	....	1	....	....	....	....	....	....	....	1	....	2	2	2	....	....	....	44
80	1	....	....	....	81	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	45
155	....	....	....	....	155	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
182	....	....	....	....	182	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	9	36	62	183	....	48
....	....	....	....	....	....	....	....	1	4	5	5	5	5	5	5	5	5	2	4	5	....	....	49
31	11	13	7	4	66	16	23	21	18	9	19	7	11	13	13	15	7	7	16	8	9	3	50
1	....	....	....	....	1	....	....	....	....	1	....	....	2	1	....	....	....	....	....	....	....	....	51
33	9	3	....	....	45	2	1	1	2	....	1	1	3	23	4	9	12	12	11	7	3	....	52

Digitized by Google

Table 21, Concluded.—Causes of death in Michigan, by months and ages.

Line number.	Causes of death, 1908.	Total deaths, 1908.	Rate per 100,000 estimated population.	Months of death, 1908.											
				Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	ALL CAUSES	22,568	1,464.3	2,014	2,109	2,169	2,054	1,750	1,659	1,688	1,889	1,889	1,891	1,784	1,672
2	Typhoid fever	368	23.9	21	25	25	16	20	8	27	38	47	46	57	38
3	Malarial fever	27	1.8	.....	3	1	3	1	2	5	2	5	2	1	2
4	Smallpox	4	0.3	.....	.....	.....	1	1	1	.....	1	.....	.....	.....	.....
5	Measles	32	2.1	4	1	2	3	5	1	1	1	.....	.....	4	10
6	Scarlet fever	112	7.3	21	13	19	13	11	6	.....	4	2	10	5	8
7	Whooping cough	180	11.7	14	20	24	35	18	17	15	13	11	7	2	4
8	Diphtheria and croup	141	9.1	13	16	11	8	6	6	6	8	13	19	16	19
9	Influenza	400	26.0	64	122	96	51	23	9	3	1	6	3	9	13
10	Dysentery	113	7.3	1	.....	4	2	.....	1	6	34	33	23	7	2
11	Erysipelas	56	3.6	3	6	12	8	7	3	3	2	2	1	4	5
12	Other epidemic diseases	20	1.3	.....	1	.....	1	.....	.....	2	5	5	2	1	3
13	Tuberculosis of lungs	1,349	87.5	119	144	110	132	119	110	123	101	70	100	112	109
14	Other forms of tuberculosis	257	16.7	14	28	32	26	30	32	16	18	14	12	19	16
15	Cancer	1,291	83.8	108	101	117	103	90	141	107	114	94	94	116	106
16	Rheumatism	140	9.1	20	16	21	14	13	8	6	7	12	9	8	6
17	Diabetes	245	15.9	18	22	24	27	8	18	15	20	28	20	22	23
18	Other general diseases	559	36.3	32	50	68	63	53	44	49	52	43	47	33	35
19	Meningitis	258	16.7	17	31	26	28	23	18	21	19	23	18	21	13
20	Apoplexy	1,190	77.2	132	106	114	110	101	93	93	85	82	96	97	81
21	Paralysis	622	40.4	62	54	51	60	52	46	43	55	50	53	44	52
22	Convulsions	264	17.1	16	28	32	28	22	17	21	25	19	18	22	16
23	Other nervous diseases	566	36.7	56	39	46	43	47	48	34	54	47	57	50	45
24	Heart disease	2,629	170.6	229	246	233	236	236	218	169	186	207	207	223	231
25	Other circulatory diseases	643	41.7	59	39	62	70	49	50	51	54	42	55	66	46
26	Bronchitis	335	21.7	39	53	48	51	19	17	9	14	19	16	33	17
27	Bronchopneumonia	289	18.8	42	48	46	33	24	9	8	5	13	18	24	19
28	Pneumonia	1,090	70.7	152	183	160	139	100	42	25	17	38	59	92	83
29	Other respiratory diseases	266	17.3	27	24	27	27	25	19	10	13	17	25	34	18
30	Diseases of stomach	402	26.1	30	36	33	38	25	25	25	37	46	45	24	38
31	Diarrhea and enteritis (under 2 years)	1,030	66.8	23	19	30	39	27	55	141	258	212	167	38	21
32	Diarrhea and enteritis (over 2 years)	282	18.3	22	12	17	16	7	9	27	49	56	45	12	10
33	Hernia and obstruction of bowels	263	17.1	22	21	32	13	22	23	21	24	17	18	23	27
34	Cirrhosis of liver	196	12.7	21	20	16	13	17	12	11	12	22	12	18	22
35	Other liver diseases	196	12.7	18	16	14	25	16	16	14	15	13	15	15	19
36	Peritonitis	155	10.1	11	13	13	15	13	11	9	11	13	19	18	9
37	Appendicitis	201	13.0	13	14	22	21	20	11	16	18	19	13	16	18
38	Other digestive diseases	147	9.5	9	15	18	11	14	4	11	11	14	10	12	18
39	Bright's disease	911	59.1	82	69	79	78	75	73	67	78	72	88	68	82
40	Other genito-urinary diseases	359	23.3	35	28	44	28	33	32	23	33	25	22	30	26
41	Puerperal septicemia	99	6.4	12	16	21	5	7	8	2	7	2	5	6	8
42	Other puerperal diseases	150	9.7	13	14	16	15	10	14	20	12	11	6	13	6
43	Skin diseases	128	8.3	13	11	8	10	13	11	9	6	9	16	8	14
44	Diseases locomotor system	48	3.1	6	5	6	3	4	6	1	2	3	4	2	6
45	Malformations	277	18.0	23	25	31	28	22	20	25	21	23	18	22	19
46	Premature Birth	526	34.1	49	47	49	44	46	41	54	42	43	29	40	42
47	Congenital debility	841	54.6	71	62	84	81	78	54	69	76	70	81	64	51
48	Old age	1,069	69.4	122	111	92	102	77	96	81	46	78	92	89	83
49	Suicides	253	16.4	24	10	23	25	21	21	16	17	37	22	20	17
50	Accidents	1,147	74.4	79	81	81	77	82	102	148	120	107	92	86	90
51	Homicides	42	2.7	3	2	2	2	3	2	4	5	8	6	4	1
52	Causes ill-defined	400	26.0	30	25	27	34	35	27	26	41	47	49	34	25

Digitized by Google

for the State and geographical sections, 1908. Southern counties.

Age of decedents, 1908.																						
Age in years under five.					Ages for five year periods.																	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	Line number.
4144	552	284	167	112	5259	376	306	547	788	753	773	731	755	909	1064	1177	1397	1619	1785	1813	2496	19	1
3	4	4	2	4	17	24	23	50	63	37	31	28	19	22	15	13	9	4	6	5	2	....	2
1	....	....	....	....	1	1	1	4	2	1	3	1	1	1	....	3	....	1	1	3	3	....	3
1	....	....	....	....	1	1	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	4
4	8	6	3	3	24	4	....	2	....	....	....	....	1	1	....	....	....	....	....	....	....	....	5
5	13	17	14	13	62	33	7	3	1	2	2	1	....	....	1	....	....	....	....	....	....	....	6
125	32	9	6	3	175	3	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	7
11	14	15	18	18	76	47	9	2	1	....	2	....	....	3	....	....	....	1	....	....	....	....	8
17	4	3	1	....	25	3	3	3	4	5	8	11	9	9	19	19	22	39	56	70	94	1	9
13	5	9	3	3	33	3	1	1	....	....	1	1	1	2	2	3	6	7	16	15	21	....	10
11	....	....	....	....	11	....	1	2	1	2	....	3	1	1	2	4	6	5	10	3	4	....	11
6	2	....	....	....	8	1	....	....	1	....	1	....	1	1	....	1	2	....	....	1	3	....	12
12	7	5	1	1	26	7	30	108	230	211	174	109	91	81	72	66	36	50	30	21	7	....	13
27	11	10	4	3	55	13	10	18	26	17	20	13	10	14	12	12	10	9	7	9	2	....	14
.....	1	1	3	1	6	1	....	2	7	9	31	45	76	109	149	151	181	174	148	116	86	...	15
1	....	1	....	....	2	11	8	6	7	7	5	5	6	12	4	6	18	11	13	16	3	....	16
1	1	4	3	....	9	10	7	6	6	9	9	3	8	13	29	18	34	33	30	10	10	1	17
118	4	4	4	2	132	13	7	17	21	21	35	35	36	28	43	44	39	24	25	18	19	....	18
78	27	20	11	7	143	10	9	18	12	7	11	12	8	6	7	2	1	7	3	1	1	....	19
12	2	2	2	....	18	4	2	4	3	11	16	17	28	52	75	102	132	166	182	183	195	....	20
4	1	....	....	....	5	....	3	2	4	2	6	11	11	18	30	35	16	85	98	108	142	1	21
220	21	6	2	2	251	3	....	2	1	2	1	2	....	....	1	....	....	....	1	....	....	....	22
22	3	1	4	3	33	12	19	15	27	17	26	26	28	46	49	51	38	46	55	39	38	1	23
48	4	2	3	3	60	12	19	26	37	41	51	64	85	118	148	181	269	335	402	361	420	....	24
4	4	5	4	....	17	8	9	7	8	16	17	8	19	26	35	46	66	71	96	94	96	4	25
93	19	3	3	2	120	7	1	2	2	2	2	2	1	4	7	11	15	25	29	34	71	....	26
121	35	13	4	2	175	8	1	1	1	6	4	2	5	5	6	7	7	10	13	13	25	....	27
209	44	24	11	9	297	23	13	28	44	25	41	48	43	56	44	51	68	86	81	67	75	....	28
31	10	8	2	1	52	5	4	8	14	13	10	14	14	7	14	13	13	16	22	22	24	1	29
115	7	4	3	1	130	4	7	1	5	11	10	7	14	18	19	26	25	27	29	24	45	....	30
859	171	....	....	....	1030	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	31
.....	....	66	16	4	86	17	3	5	5	9	7	6	8	5	4	13	15	16	25	27	31	....	32
30	3	5	4	2	44	5	6	6	7	16	8	11	14	6	13	24	19	18	18	27	21	....	33
1	....	....	....	....	1	4	....	1	1	2	1	8	9	14	23	21	32	26	16	25	12	....	34
7	4	....	....	....	11	....	....	3	4	6	8	13	8	10	17	19	21	25	18	15	18	....	35
11	2	4	....	2	19	3	6	13	21	20	10	11	4	10	8	7	3	6	5	3	6	....	36
.....	....	....	2	2	4	21	26	37	31	18	18	7	6	6	9	5	3	3	4	2	1	....	37
26	13	2	....	1	42	6	1	1	5	2	11	7	4	10	7	5	7	11	8	11	10	....	38
7	4	1	1	1	14	6	4	12	13	20	28	34	40	56	72	93	101	113	106	103	96	....	39
8	2	2	3	3	18	....	....	9	16	17	21	20	16	21	21	16	25	28	30	36	65	....	40
.....	....	....	....	....	....	....	....	13	21	22	16	15	9	3	....	....	....	....	....	....	....	....	41
.....	....	....	....	....	....	....	....	8	34	40	27	30	11	....	....	....	....	....	....	....	....	....	42
11	....	....	....	2	13	....	1	....	1	2	2	5	4	5	3	5	6	11	22	19	29	....	43
10	5	2	3	1	21	1	3	4	1	....	....	1	1	1	2	3	1	3	4	2	....	....	44
268	5	1	1	....	275	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	45
526	....	....	....	....	526	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	46
841	....	....	....	....	841	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	47
.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	48	95	224	701	1	48
.....	....	....	....	....	....	....	....	10	20	15	18	25	29	31	26	29	19	6	10	8	6	1	49
93	36	24	22	13	188	36	56	77	64	77	69	58	56	66	55	54	50	49	48	53	84	7	50
3	....	....	....	....	3	....	....	1	7	5	7	5	4	3	1	4	1	....	1	....	....	....	57
130	24	1	4	....	159	4	6	8	6	7	5	7	16	9	21	14	36	24	23	24	30	1	52

Digitized by Google

DISCUSSION OF INDIVIDUAL CAUSES OF DEATH, 1908.

The following text is devoted to the discussion of the most important individual diseases and groups of diseases according to the condensed list shown in Table 21, by months and ages, for the State and geographical sections into which it is divided. For convenience, a summary derived from these tables will be presented in connection with each cause.

DEATHS FROM ALL CAUSES.

The total number of deaths registered during the year 1908 was 36,761, corresponding to a mortality of 1,393.0 per 100,000 estimated population. This number is exclusive of 2,694 stillbirths returned as deaths. Compared with the years immediately preceding, we have:

Years.	Total deaths registered.	Death rates per 100,00 population.
1898	29,557	1,199.0
1899	33,894	1,353.4
1900	33,884	1,340.5
1901	32,834	1,339.7
1902	31,472	1,271.3
1903	33,176	1,325.6
1904	34,494	1,364.4
1905	34,679	1,356.1
1906	37,033	1,432.8
1907	36,701	1,405.2
1908	36,761	1,393.0

The rates more conveniently expressed as rates per 1,000 population would be 12.0, 13.5, 13.4, 13.4, 12.7, 13.3, 13.6, 13.6, 14.3, 14.1, 13.9.

Geographical sections.	Total deaths, 1908.	Death rates per 100,000 population.
STATE OF MICHIGAN	36,761	1,393.0
Upper Peninsula	4,163	1,437.1
Northern counties	4,420	1,274.7
Central counties	5,610	1,215.1
Southern counties	22,563	1,464.3

Of the total number of deaths for the State, slightly over 61 per cent of them occurred in the southern counties. This might be expected, as the southern counties comprise the oldest portion of the State, with an age distribution of population less favorably than the newly settled portions of the State.

Digitized by Google

TYPHOID FEVER.

There were 687 deaths from typhoid fever in Michigan during the year 1908, corresponding to an annual death rate of 26.0 per 100,000 estimated population. The distribution of these deaths is given for the State and geographical sections in Table 22, which also contains a statement of the age and sex distribution. By geographical sections, the highest rate of mortality from this cause occurred in the Upper Peninsula, or 31.1 per 100,000 estimated population. For the State as a whole, the month of October, as usual, had the most deaths and the month of June the fewest. The largest number of deaths occurred between the ages of 20 and 29 years. By sex there were 404 deaths of males and 283 deaths of females.

Table 22.—Deaths from typhoid fever in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	687	26.0	32	40	38	36	36	28	42	65	93	109	100	68
I. Upper Peninsula	90	31.1	4	3	7	10	4	6	5	6	9	19	10	7
II. Northern counties	105	30.3	4	10	....	4	4	3	5	7	17	23	20	8
III. Central counties	124	26.8	3	2	6	6	8	11	5	14	20	21	13	15
IV. Southern counties	368	23.9	21	25	25	16	20	8	27	38	47	46	57	38

Deaths by sex, 1908.		Deaths by ages, 1908.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
404	283	7	43	43	86	158	180	96	70	52	28	15	2

SMALLPOX.

There were but 11 deaths returned to the Department during the year 1908 as having been caused from smallpox. Although causing fewer deaths than any of the important diseases, yet it is of very great sanitary importance. The deaths returned have resulted from a large number of cases of illness, but the old relations between the cases of sickness and the deaths resulting therefrom have been entirely changed. Formerly considered as one of the most fatal diseases, it is probable that the fatality at present, as based upon the deaths and cases reported to the State Board of Health, is considerably less than one per cent.

Table 23, which follows, gives the months of death by geographical sections. The sex and age distribution is also shown.

Digitized by Google

Table 23.—Deaths from smallpox in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	11	0.4	3	1	1	2	1	1	.....	2	.....	.....	.....	.....
I. Upper Peninsula	1	0.3	....	....	1	....	.....	.....	.....	.....	.....	.....	.....	.....
II. Northern counties	3	0.9	2	1	....	....	.....	.....	.....	.....	.....	.....	.....	.....
III. Central counties	3	0.6	1	....	....	1	.....	.....	.....	1	.....	.....	.....	.....
IV. Southern counties	4	0.3	....	....	....	1	1	1	.....	1	.....	.....	.....	.....

Deaths by sex, 1908.		Deaths by ages, 1908.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
6	5	3	4	3	7	.....	1	.....	1	.....	.....	1	1

Table 24.—Deaths from measles in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	121	4.6	7	11	9	7	21	10	8	4	4	11	12	17
I. Upper Peninsula	70	24.2	2	7	4	4	12	6	7	3	4	10	6	5
II. Northern counties	13	3.8	....	1	....	....	4	3	.....	.....	.....	1	2	2
III. Central counties	6	1.3	1	2	3	....	.....	.....	.....	.....	.....	.....	.....	.....
IV. Southern counties	32	2.1	4	1	2	3	5	1	1	1	.....	.....	4	10

Deaths by sex, 1908.		Deaths by ages, 1908.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
64	57	28	92	19	111	4	1	1	3	.....	.....	.....	1

Digitized by Google

MEASLES.

There were only 121 deaths from measles in Michigan during the year 1908, corresponding to an annual death rate of 4.6 per 100,000 estimated population. The distribution of these deaths by months is given for the State and four geographical sections in Table 24, which also contains a statement of the sex and age distribution.

By geographical sections the highest rate of mortality from this cause occurred in the Upper Peninsula, namely, 24.2 per 100,000 estimated population, and the lowest in the central counties, with a rate of 1.3 per 100,000, For the State as a whole, the month of May had the most deaths and the months of August and September the fewest.

SCARLET FEVER.

There were 194 deaths from scarlet fever during the year 1908, corresponding to an annual death rate of 7.4 per 100,000 estimated population. The distribution of these deaths by months is given for the State and four geographical sections in Table 25, which also contains a statement of the sex and age distribution.

By geographical sections the highest rate of mortality occurred in the Upper Peninsula, namely, 10.4 per 100,000, and the lowest in the northern counties, or 5.5 per 100,000. For the State as a whole, the month of January had the most deaths and the month of September the fewest.

Table 25.—Deaths from scarlet fever in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	194	7.4	35	26	28	26	19	7	8	7	2	13	10	13
I. Upper Peninsula	30	10.4	6	9	4	6	2	.....	1	.....	.....	1	1	.....
II. Northern counties	19	5.5	4	3	1	5	1	.....	2	.....	.....	.....	1	2
III. Central counties	33	7.1	4	1	4	2	5	1	5	3	.....	2	3	3
IV. Southern counties	112	7.3	21	13	19	13	11	6	.....	4	2	10	5	8

Deaths by sex, 1908.		Deaths by ages, 1908.											
Males.	Females.	Under 1 years.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
90	104	13	105	56	161	22	7	3	.....	1	.....	.....	.....

Digitized by Google

Table 26.—Deaths from whooping cough in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	305	11.6	20	24	31	43	32	25	25	27	23	27	16	12
I. Upper Peninsula	18	6.2	3	1	2	1	1	.....	2	1	2	2	1	2
II. Northern counties	51	14.7	1	1	4	3	6	.....	3	7	4	11	7	4
III. Central counties	56	12.1	2	2	1	4	7	8	5	6	6	7	6	2
IV. Southern counties	180	11.7	14	20	24	35	18	17	15	13	11	7	2	4

Deaths by sex, 1908.		Deaths by ages, 1908.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
137	168	206	296	5	301	3	1	.....	.....	.....	.....	.....	.....

WHOOPING COUGH.

There were 305 deaths from whooping cough during the year 1908, corresponding to an annual death rate of 11.6 per 100,000 estimated population. The distribution of these deaths by months is given for the State and four geographical sections in Table 26, which also contains a statement of the sex and age distribution.

By geographical sections, the highest rate of mortality from this cause occurred in the northern counties, namely, 14.7 per 100,000, and the lowest in the Upper Peninsula, or 6.2 per 100,000. For the State as a whole the month of April had the most deaths and the month of December the fewest. By sex there were 137 deaths of males and 168 deaths of females.

DIPHTHERIA AND CROUP.

Deaths and death rates from diphtheria and croup for the past five years were as follows:

Years.	Deaths from diphtheria and croup.	Death rates per 100,000 population.
1904	515	20.4
1905	478	18.7
1906	472	18.3
1907	421	16.1
1908	343	13.0

Digitized by Google

As shown in the above comparative table the year 1908 had a less number of deaths from this cause than either of the four years immediately preceding it. The distribution of the deaths for the year 1908 is given for the State and four geographical sections in Table 27, which also contains a statement of the age and sex distribution.

By geographical sections the highest rate of mortality occurred in the Upper Peninsula, namely, 40.4 per 100,000 estimated population. The lowest rate of mortality appears in the central counties, or 8.0 per 100,000. For the State as a whole the month of January had the most deaths and the month of June the fewest. By sex there were 168 deaths of males and 175 deaths of females.

Table 27.—Deaths from diphtheria and croup in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	343	13.0	46	41	28	20	20	13	16	18	25	38	35	43
I. Upper Peninsula	117	40.4	15	8	11	6	10	5	7	7	5	17	14	12
II. Northern counties	48	13.9	12	9	3	3	2	2	2	2	3	1	2	7
III. Central counties	37	8.0	6	8	3	3	2	.....	1	1	4	1	3	5
IV. Southern counties	141	9.1	13	16	11	8	6	6	6	8	13	19	16	19

Deaths by sex, 1908.		Deaths by ages, 1908.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
168	175	28	179	113	292	35	8	3	4	.....	1	.....	.....

INFLUENZA.

There were 633 deaths from influenza in Michigan during the year 1908, corresponding to an annual death rate of 24.0 per 100,000 estimated population. The distribution of these deaths by months is given for the State and four geographical sections in Table 28, which also contains a statement of the sex and age distribution.

By geographical sections the highest rate of mortality occurred in the southern counties, namely, 26.0 per 100,000, and the lowest in the Upper Peninsula, or 13.8 per 100,000 estimated population. For the State as a whole the month of February had the most deaths and the months of July and October the fewest. The largest number of deaths occurred between the ages of 70 and 79 years. By sex there were 272 deaths of males and 361 deaths of females.

Digitized by Google

Table 28.—Deaths from influenza in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	633	24.0	93	185	148	92	42	15	5	6	9	5	13	20
I. Upper Peninsula....	40	13.8	5	12	7	7	3	1	1	3	.....	1	.....	.....
II. Northern counties..	79	22.8	8	18	18	16	6	3	.....	.....	2	1	3	4
III. Central counties....	114	24.7	16	33	27	18	10	2	1	2	1	.....	1	3
IV. Southern counties...	400	26.0	64	122	96	51	23	9	3	1	6	3	9	13

Deaths by sex, 1908.		Deaths by ages, 1908.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 16.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
272	361	43	64	5	69	8	14	29	31	59	95	192	133

*Includes 3 at unknown ages.

PULMONARY TUBERCULOSIS.

There were 2,249 deaths from tuberculosis of the lungs in Michigan during the year 1908, corresponding to an annual death rate of 85.2 per 100,000 estimated population. The distribution of these deaths by months is given for the State and four geographical sections in Table 29, which also contains a statement of the sex and age distribution.

Table 29.—Deaths from tuberculosis of lungs in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	2,249	85.2	193	228	204	219	222	179	195	166	114	175	178	176
I. Upper Peninsula....	286	98.7	23	26	22	31	30	21	26	17	14	25	24	27
II. Northern counties..	279	80.5	22	25	36	30	32	27	21	23	13	14	22	14
III. Central counties....	335	72.6	29	33	36	26	41	21	25	25	17	36	20	26
IV. Southern counties...	1,349	87.5	119	144	110	132	119	110	123	101	70	100	112	109

Deaths by sex, 1908.		Deaths by ages, 1908.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
1,086	1,163	19	50	21	71	262	726	459	276	217	150	74	12

*Includes 2 at unknown ages.

Digitized by Google

By geographical sections, the highest rate of mortality from this cause occurred in the Upper Peninsula, namely, 98.7 per 100,000 estimated population, and the lowest in the central counties, or 72.6 per 100,000. For the State as a whole the month of September had the fewest number of deaths while the month of February had the largest number. By sex there were 1,086 deaths of males and 1,163 deaths of females.

OTHER FORMS OF TUBERCULOSIS.

There were 451 deaths returned from tuberculosis other than of the lungs, which corresponds to an annual death rate of 17.1 per 100,000 estimated population. The distribution of these deaths by months is given for the State and four geographical sections in Table 30, which also contains a statement of the sex and age distribution.

By geographical sections the highest rate of mortality from this cause occurred in the Upper Peninsula, namely, 24.9 per 100,000, and the lowest in the northern counties, or 13.6 per 100,000. For the State as a whole the month of March had the most deaths and the month of October the fewest, By sex there were 231 deaths of males and 220 deaths of females.

Table 30.—Deaths from other forms of tuberculosis in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	451	17.1	30	45	52	46	50	47	30	33	33	26	31	28
I. Upper Peninsula	72	24.9	7	7	8	12	5	4	4	6	6	5	5	3
II. Northern counties	47	13.6	1	6	4	3	8	4	2	4	4	6	2	3
III. Central counties	75	16.2	8	4	8	5	7	7	8	5	9	3	5	6
IV. Southern counties	257	16.7	14	28	32	26	30	32	16	18	14	12	19	16

Deaths by sex, 1908.		Deaths by ages, 1908.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
231	220	47	102	29	131	59	73	56	42	37	29	21	2

*Includes 1 at unknown age.

CANCER.

There were 1,921 deaths from cancer in Michigan during the year 1908, corresponding to an annual death rate of 72.8 per 100,000 estimated population. The distribution of these deaths for the State and four geographical sections is given in Table 31, which also contains a statement of the sex and age distribution.

By geographical sections the highest rate of mortality occurred in the southern counties, namely 83.8 per 100,000, and the lowest in the Upper Peninsula, or 49.0 per 100,000. For the State as a whole the month of August had the largest number of deaths, and the month of May the fewest. The largest number of deaths occurred between the ages 60-69 years. By sex there were 775 deaths of males and 1,146 deaths of females.

Digitized by Google

Table 31.—Deaths from cancer in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,921	72.8	159	158	177	140	128	181	162	183	145	162	158	168
I. Upper Peninsula	142	49.0	14	14	16	5	7	8	14	15	9	17	9	14
II. Northern counties	199	57.4	14	22	14	13	10	16	16	22	19	15	13	25
III. Central counties	289	62.6	23	21	30	19	21	16	25	32	23	36	20	23
IV. Southern counties	1,291	83.8	108	101	117	103	90	141	107	114	94	94	116	106

Death by sex, 1908.		Death by ages, 1908.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
775	1,146	5	16	5	21	5	25	119	280	439	538	376	118

DISEASES OF THE NERVOUS SYSTEM.

The following comparative statement shows the number of deaths and death rates per 100,000 estimated population as compiled from diseases affecting the nervous system.

	Deaths.				
	1904.	*1905.*	*1906.*	*1907.*	*1908.*
Total	4,256	4,225	4,379	4,572	4,352
Meningitis	401	460	503	569	480
Apoplexy	1,473	1,436	1,536	1,672	1,669
Paralysis	863	875	936	926	870
Convulsions	505	543	499	468	454
Other nervous diseases	1,014	911	905	937	879
	Death rates per 100,000 population.				
Totals	168.2	165.2	169.4	175.1	164.9
Meningitis	15.8	18.0	19.5	21.8	18.2
Apoplexy	58.2	56.2	59.4	64.0	63.2
Paralysis	34.1	34.2	36.2	35.5	33.0
Convulsions	20.0	21.2	19.3	17.9	17.2
Other nervous diseases	40.1	53.6	35.0	35.9	33.3

Digitized by Google

It would appear that the mortality from this class of diseases has increased somewhat during the past five years. The group, however, undoubtedly includes many deaths not correctly assignable, in their true etiology, to diseases of the nervous system. Thus deaths from meningitis may be in part from "simple" or "idiopathic" meningitis, from epidemic cerebrospinal meningitis, or from meningitis following pneumonia, typhoid fever, and other acute infectious diseases. It may also include some deaths from tuberculous meningitis, the element of tuberculosis not having been properly specified in the physician's certificate; when known to be such these cases are included under tuberculosis diseases. Apoplexy and paralysis may stand for deaths due to an identical cause, namely, arterial degeneration and rupture of cerebral vessels, with consequent hemorrhage on the brain. "Paralysis" is an indefinite term; the cause of the paralysis should always be given by the reporting physician, which fact would enable many deaths so reported to be properly classified. "Convulsions" also is a most unsatisfactory term, being based upon a mere symptom common to many diseases and conditions. Many of these deaths are due to infantile diarrhea and enteritis, but the distribution by months throughout the year, as shown in Table 35, would indicate that other causes were responsible for the majority of cases, as the maximum mortality does nor occur in the months most susceptible to cholera infantum in all sections of the State, but in the southern counties may be found in the month of March. Following is a detailed statement of the most important diseases of the nervous system, showing the incidence of deaths for the State and four geographical sections, as well as the sex and age distribution.

Table 32.—Deaths from meningitis in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	480	18.2	29	49	44	46	37	37	42	46	44	45	42	19
I. Upper Peninsula	76	26.2	5	5	7	5	5	10	9	5	7	8	7	3
II. Northern counties	51	14.7	1	6	6	6	2	4	2	10	5	6	3	.....
III. Central counties	95	20.6	6	7	5	7	7	5	10	12	9	13	11	3
IV. Southern counties	258	16.7	17	31	26	28	23	18	21	19	23	18	21	13

Deaths by sex, 1908.		Deaths by ages, 1908.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
247	233	155	189	28	317	51	30	29	19	13	14	6	1

Digitized by Google

Table 33.—Deaths from apoplexy in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,669	63.2	171	154	150	152	148	130	118	129	120	136	147	114
I. Upper Peninsula	85	29.3	7	14	6	6	8	7	3	7	5	7	9	6
II. Northern counties	148	42.7	15	13	9	10	16	12	10	12	14	15	15	7
III. Central counties	246	53.3	17	21	121	26	23	18	12	25	19	18	26	20
IV. Southern counties	1,190	77.2	132	106	114	110	101	93	93	85	82	96	97	81

Deaths by sex, 1908.		Deaths by ages, 1908.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
895	774	15	22	6	28	9	18	49	114	256	439	500	254

*Includes 2 at unknown ages.

Table 34.—Deaths from paralysis in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	870	33.0	80	80	73	85	70	61	64	73	74	73	67	70
I. Upper Peninsula	33	11.4	4	3	6	2	4	2	5	1	2	1	2	1
II. Northern counties	90	26.0	5	11	6	11	7	6	5	8	8	9	7	7
III. Central counties	125	27.1	9	12	10	12	7	7	11	9	14	10	14	10
IV. Southern counties	622	40.4	62	54	51	60	52	46	43	55	50	53	44	52

Deaths by sex, 1908.		Deaths by ages, 1908.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 16.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
438	432	6	9	.....	9	9	6	22	38	93	206	295	191

*Includes 1 at unknown age.

Digitized by Google

Table 35.—Deaths from convulsions in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	454	17.2	28	43	51	48	47	32	37	41	35	31	36	25
I. Upper Peninsula	74	25.5	3	5	8	8	9	3	4	9	5	7	9	4
II. Northern counties	49	14.1	1	5	5	4	5	6	4	3	6	6	2	2
III. Central counties	67	14.5	8	5	6	8	11	6	8	4	5	.....	3	3
IV. Southern counties	264	17.1	16	28	32	28	22	17	21	25	19	18	22	16

Deaths by sex, 1908.		Deaths by ages, 1908.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 16.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
258	196	375	434	4	438	4	4	5	.....	1	.....	1	1

DISEASES OF THE CIRCULATORY SYSTEM.

The total number of deaths, together with deaths rate per 100,000 estimated population, from the causes here compiled may be seen in the following statement, which merely attempts to distinguish two varieties of returns, namely, deaths reported from some definite form of organic heart disease and deaths from endocarditis, pericarditis, diseases of the arteries and veins, and other indefinitely reported diseases of the circulatory system, including deaths reported from "hemorrhage" with unspecified cause.

	Deaths.				
	1904.	*1905.*	*1906.*	*1907.*	*1908.*
Total diseases circulatory system	4,312	4,045	4,351	4,696	4,653
Heart disease	3,556	3,310	3,526	3,791	3,768
Other circulatory diseases	756	735	825	905	885
	Death rates per 100,000 population.				
Total diseases circulatory system	170.4	158.2	168.3	179.8	176.3
Heart disease	140.6	129.4	136.4	145.1	142.8
Other circulatory diseases	29.9	28.7	31.9	34.7	33.5

Digitized by Google

This class does not include deaths from "heart failure," which are regarded as too worthless, so far as nosological statistics are concerned, to be included among deaths from diseases of any specified organ. The marked and steady increase in the registered mortality from heart diseases is a feature of great interest. If deaths from "heart failure," a portion of which may be due to actual organic disease of the heart, were included, the number of deaths from this cause would be still higher, but even as it is, the number of deaths from organic heart disease in Michigan in 1908 exceeded those from any other single cause recorded.

The distribution of deaths from organic heart diseases for the year 1908 may be seen in Table 36, according to which it appears that the death rate from this disease increased progressively in passing from the Upper Peninsula to the southern counties. This might have been expected as the deaths from heart disease are chiefly those of elderly persons, and the general age distribution of the population is more favorable to a high ratio of deaths from this cause in the older and more thickly settled portions of the State.

Table 36.—Deaths from heart disease in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	3,768	142.8	340	360	339	347	322	296	271	257	281	300	333	322
I. Upper Peninsula	196	67.7	19	19	14	27	11	10	12	14	18	14	23	15
II. Northern counties	354	102.2	34	34	30	26	34	25	35	25	29	27	30	25
III. Central counties	589	127.6	58	43	62	58	51	43	55	32	27	52	57	51
IV. Southern counties	26,29	170.6	229	264	233	236	226	218	169	186	207	207	223	231

Deaths by sex, 1908.		Deaths by ages, 1908.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
2,109	1,659	71	88	24	112	74	122	175	276	503	877	1,096	533

DISEASES OF THE RESPIRATORY SYSTEM.

Respiratory diseases in Michigan are considered as among the most important causes of death. The following tables show the incidence of deaths from the more important individual causes. In order to compare the chief causes of death affecting the respiratory tract, we may consider the totals in these tables in connection with deaths from influenza and pulmonary tuberculosis.

Digitized by Google

Table 37.—Deaths from bronchitis in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	627	23.8	79	83	76	88	53	31	18	24	30	47	53	45
I. Upper Peninsula....	101	34.9	15	13	11	9	10	.....	3	5	4	13	7	11
II. Northern counties..	79	22.8	9	9	5	16	15	4	4	.....	1	7	4	5
III. Central counties....	112	24.3	16	8	12	12	9	10	2	5	6	11	9	12
IV. Southern counties...	335	21.7	39	53	48	51	19	17	9	14	19	16	33	17

Deaths by sex, 1908.		Deaths by ages, 1908.												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
302	325	214	285	8	293	4	9	7	7	35	62	117	93

Table 38.—Deaths from bronchopneumonia in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	485	18.4	66	67	66	60	42	16	18	14	24	30	43	39
I. Upper Peninsula....	78	26.9	8	9	9	9	2	2	6	7	4	6	7	9
II. Northern counties..	51	14.7	8	5	4	7	6	2	3	.....	5	2	5	4
III. Central counties....	67	14.5	8	5	7	11	10	3	1	2	2	4	7	7
IV. Southern counties...	289	18.8	42	48	46	33	24	9	8	5	13	18	24	19

Deaths by sex, 1908.		Deaths by ages, 1908.												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
256	229	213	324	10	334	9	8	9	13	18	29	34	31

Digitized by Google

Table 39.—Deaths from pneumonia in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	1,828	69.3	267	284	254	234	180	73	44	32	63	97	150	150
I. Upper Peninsula....	228	78.7	35	36	20	23	21	15	7	9	10	11	18	23
II. Northern counties..	215	62.0	28	29	28	30	32	8	2	5	6	7	17	23
III. Central counties....	295	63.9	52	36	46	42	27	8	10	1	9	20	23	21
IV. Southern counties...	1,090	70.7	152	183	160	139	100	42	25	17	38	59	92	83

Deaths by sex, 1908.		Deaths by ages, 1908.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
1,036	792	357	531	34	565	90	113	144	170	170	239	227	109

*Includes 1 unknown age.

Digitized by Google

DISEASES OF THE DIGESTIVE SYSTEM.

Diseases affecting the digestive system are of great numerical importance as causes of death. The following statement shows the movement of these diseases during the past five years:

	Deaths.				
	1904.	*1905.*	*1906.*	*1907.*	*1908.*
Total diseases digestive system	4,266	4,888	5,555	4,119	5,164
Disease of stomach	614	618	724	622	657
Enteritis, under 2 years	1,504	2,034	2,436	1,451	2,201
Enteritis, over 2 years	502	558	689	368	532
Hernia and obstruction of bowels	260	311	361	238	373
Cirrhosis of liver	243	223	246	300	284
Other liver diseases	267	340	346	316	293
Peritonitis	338	282	246	245	246
Appendicitis	336	306	298	278	346
Other digestive diseases	202	216	209	211	232
	Death rates per 100,000 population.				
Total diseases digestive system	168.9	191.1	214.9	157.7	195.7
Diseases of stomach	24.3	24.2	28.0	23.8	24.9
Enteritis, under 2 years	59.4	79.5	94.2	55.6	83.4
Enteritis, over 2 years	19.8	21.8	26.7	14.1	20.2
Hernia and obstruction of bowels	10.3	12.2	14.0	12.6	14.1
Cirrhosis of liver	9.6	8.7	9.5	11.5	10.8
Other liver diseases	10.6	13.3	13.4	12.1	11.1
Peritonitis	13.4	11.0	9.5	9.4	9.3
Appendicitis	13.3	12.0	11.5	10.6	13.1
Other digestive diseases	8.0	8.4	8.1	8.1	8.8

The high death rate from diarrheal diseases of children under 2 years of age should be considered in connection with the fact that the other diseases given are not limited to any particular age periods, excepting only the complementary statement of diarrhea and enteritis over 2 years of age. Even on this basis, the mortality from infantile diarrhea is much greater than than that of any other disease in this group.

In Tables 40, 41 and 42 the monthly prevalence, age, sex, and geographical distribution are shown for diseases of the stomach, diarrhea and enteritis, under two years of age, and also diarrhea and enteritis over two years of age.

Digitized by Google

Table 40.—Deaths from diseases of the stomach in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	657	24.9	52	53	50	61	45	38	53	52	70	79	44	60
I. Upper Peninsula....	44	15.2	2	3	3	3	4	4	4	2	9	5	3	2
II. Northern counties..	82	23.7	6	6	8	7	4	5	7	4	5	14	7	9
III. Central counties....	129	27.9	14	8	6	13	12	4	17	9	10	15	10	11
IV. Southern counties...	402	26.1	30	36	33	38	25	25	25	37	46	45	24	38

Deaths by sex, 1908.		Deaths by ages, 1908.												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
356	301	223	259	10	269	10	22	23	43	69	77	83	6

Table 41.—Deaths from diarrhea and enteritis, under 2 years, in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	2,201	83.4	47	60	65	60	57	80	206	464	635	392	85	50
I. Upper Peninsula....	544	187.8	13	18	19	13	14	11	26	104	188	102	19	17
II. Northern counties..	353	101.9	7	10	8	5	10	6	22	62	130	74	14	5
III. Central counties....	274	59.3	4	13	8	3	6	8	17	40	105	49	14	7
IV. Southern counties...	1,030	66.8	23	19	30	39	27	55	141	258	212	167	38	21

Deaths by sex, 1908.		Deaths by ages, 1908.												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
1,237	964	1,796	2,201	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Digitized by Google

Table 42.—Deaths from diarrhea and enteritis, over 2 years, in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	532	20.2	29	16	28	28	16	20	45	97	134	86	19	14
I. Upper Peninsula	74	25.5	1	1	5	5	1	4	8	13	23	10	2	1
II. Northern counties	100	28.9	3	3	5	6	4	6	6	24	28	11	2	2
III. Central counties	76	16.5	3	....	1	1	4	1	4	11	27	20	3	1
IV. Southern counties	282	18.3	22	12	17	16	7	9	27	49	56	45	12	10

Deaths by sex, 1908.		Deaths by ages, 1908.											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
250	282	.....	214	32	246	16	22	15	20	32	51	82	48

DISEASES OF THE GENITO-URINARY SYSTEM.

The principal cause of death in this group is Bright's disease, from which 1,370 deaths were returned for the year 1908, corresponding to a rate of 51.9 per 100,000 estimated population. Bright's disease includes acute and chronic nephritis in various forms, besides a considerable number of deaths from "uremia" or "uremic poisoning" which terms cannot be regarded as very definite. It would seem from comparison with the immediately preceding years that there has been some tendency to increase in the number of deaths from Bright's disease with the exception of the year 1905.

Years.	Deaths from Bright's disease.	Death rates per 100,000 population.
1904	1,335	52.8
1905	1,322	51.7
1906	1,348	52.1
1907	1,412	54.1
1908	1,370	51.9

In Table 43 may be found a statement of the incidence of mortality from "Bright's disease" in the different sections of the State and by age and sex for the year.

Digitized by Google

Table 43.—Deaths from Bright's disease in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State	1,370	51.9	130	100	122	114	123	106	104	114	107	123	107	120
I. Upper Peninsula	72	24.9	3	10	8	4	10	3	4	5	6	4	6	9
II. Northern counties	159	45.9	18	8	17	10	13	15	10	14	15	14	14	11
III. Central counties	228	49.4	27	13	18	22	25	15	23	17	14	17	19	18
IV. Southern counties	911	59.1	82	69	79	78	75	73	67	78	72	88	68	82

Deaths by sex, 1908.		Deaths by ages, 1908.												
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 16.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
776	594	13	26	14	40	29	60	91	155	235	314	307	139

DEATHS FROM VIOLENCE.

Accidental deaths and all other forms of violence, including suicides and homicides, so far as the returns distinguished the causes of violent deaths, may be found in the following statement for the past five years.

	Deaths.				
	1904.	*1905.*	*1906.*	*1907.*	*1908.*
Total deaths from violence	2,449	2,379	2,452	2,585	2,553
Accidental	2,107	2,076	2,180	2,265	2,101
Suicidal	315	285	253	276	386
Homicidal	27	18	19	44	66
	Death rates per 100,000 population.				
Total deaths from violence	96.8	93.0	94.9	99.0	96.3
Accidental	83.3	81.2	84.3	86.7	79.6
Suicidal	12.5	11.1	9.8	10.6	14.6
Homicidal	1.1	0.7	0.7	1.7	2.1

Digitized by Google

The age, sex and geographical distribution of the deaths reported from suicide and accidental violence may be found in Tables 44 and 45. The number of deaths from homicide is so small that it was not thought necessary to present a similar table but full details may be found in the primary tables under this item in the classified list of causes of deaths.

Table 44.—Deaths from suicide in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	386	14.6	32	20	33	34	36	32	26	27	53	35	30	28
I. Upper Peninsula....	42	14.5	....	4	3	4	8	4	2	1	.....	4	7	5
II. Northern counties..	35	10.1	....	2	2	2	4	3	2	3	10	3	2	2
III. Central counties....	56	12.1	8	4	5	3	3	4	6	6	6	6	1	4
IV. Southern counties...	253	16.4	24	10	23	25	21	21	16	17	13	22	20	17

Deaths by sex, 1908.		Deaths by ages, 1908.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
296	90	.....	.....	.....	.....	14	60	67	85	82	40	29	7

*Includes 2 at unknown ages.

Table 45.—Deaths from accidents in Michigan, 1908.

Geographical sections.	Total deaths, 1908.	Death rate per 100,000 estimated population.	Deaths by months, 1908.											
			Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
State.....	2,101	79.6	140	145	150	157	157	193	261	214	174	206	148	155
I. Upper Peninsula....	397	137.0	26	20	32	29	35	44	51	41	27	43	21	28
II. Northern counties..	276	79.7	19	23	16	19	19	23	23	31	19	49	15	20
III. Central counties....	281	60.9	16	22	21	32	21	22	39	22	21	22	26	17
IV. Southern counties...	1,147	74.4	79	81	81	77	82	104	148	120	107	92	86	90

Deaths by sex, 1908.		Deaths by ages, 1908.*											
Males.	Females.	Under 1 year.	Under 5 years.	5 to 9.	Under 10 years.	10 to 19.	20 to 29.	30 to 39.	40 to 49.	50 to 59.	60 to 69.	70 to 79.	80 and over.
1,645	456	168	367	73	440	271	324	266	220	176	147	139	104

*Includes 14 at unknown ages.

Digitized by Google

PART IV.—MARRIAGES IN MICHIGAN DURING 1908.

There were 25,765 marriages returned to the Department of State as having occurred during the year 1908. This is a decrease of 2,175 from the number registered for the year 1907, and corresponds to an annual rate of 19.5 persons married per 1,000 estimated population.

SUMMARY OF THE REGISTRATION OF MARRIAGES IN MICHIGAN, 1908.

Some of the most important facts relative to the registration of marriages in Michigan during the year 1908 are herewith presented:

Total number of marriages returned, 1908	25,765
Persons married per 1,000 estimated population	19.5

The above statement does not include 72 marriages performed by Judges of Probate under the act authorizing secret marriages in certain cases. Thirty-nine of these secrets marriages were at illegal ages according to the general laws of the State and others gave legal sanction to common-law unions, the couples being supposed to have been regularly married by the communities in which they live. A table showing the age distribution of these marriages may be found among the primary tables relating to marriages.

As to occurrence of marriages by months, we have:

More than average number	June, August, September, October, November, December.
Less than average number	January, February, March, April, May, July.
Favorite month for marriages	June, 3,242, or 30.0 per 1,000 estimated population.
Month of fewest marriages	February, 1,591, or 15.2 per 1,000 estimated population.

Of the 25,765 marriages, there were with respect to nativity:

Both bridegroom and bride of native birth	18,058 or 70.2 per cent.
Both bridegroom and bride of foreign birth	3,161 or 12.3 per cent.

Including mixed marriages, that is, marriages in which bridegrooms and brides were of different nativities, there were:

Males of native birth married, 1908	19,832, or 77.0 per cent.
Males of foreign birth married, 1908	5,928, or 23.0 per cent.
Females of native birth married, 1908	20,796, or 80.7 per cent.
Females of foreign birth married, 1908	4,697, or 18.2 per cent.

As to age at marriage, the most important groups were:

Males aged 20 to 24 years, both inclusive	10,422, or 40.4 per cent.
Males aged 20 to 29 years, both inclusive	6,892, or 26.7 per cent.
Females under 20 years of age	7,113, or 27.6 per cent.
Females aged 20 to 24 years, both inclusive	10,135, or 39.3 per cent.

MARRIAGES AND MARRIAGE RATES BY COUNTIES, 1908.

Besides the primary tables giving a full statement of the marriages returned from each county by months and periods of age of persons married, together with the statement of nativity of persons married by counties, tables of which appear under the primary tables relating to marriages in this report, reference may be made to Table 6, which shows the marriage rates for each county for the year. These rates are stated as is the preferable custom, as the

Digitized by Google

number of *persons married* per 1,000 estimated population. In general such comparisons of marriages or persons married to the population are subject to further analysis on the basis of the number of unmarried persons in the population and their age distribution. Such an exceptional rate as that of Berrien county is due to the large number of marriages of persons who are non-residents of the State. Aside from this exception, the rates of the other counties show considerable uniformity.

MARRIAGES RETURNED BY MONTHS, 1899-1908.

In Table 46 the marriages returned in Michigan for the past ten years are shown according to the months in which the ceremonies were performed. For 1908 the largest number occurred in June, 3,242, and the least number, 1,591, was in February.

Table 46.—Marriages returned, by months, for the years 1899-1908, with average for the ten-year period.

Years.	Total marriages.	Months of marriages.												
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1899	21,877	1,343	1,311	1,324	1,765	1,581	2,185	1,681	1,767	2,095	2,323	2,484	2,038	.....
1900	23,295	1,717	1,541	1,322	1,765	1,779	2,398	1,800	1,876	2,192	2,496	2,332	2,075	2
1901	24,079	1,624	1,372	1,360	1,922	1,779	2,537	1,934	1,897	2,376	2,642	2,321	2,211	4
1902	25,653	1,767	1,430	1,571	2,190	1,846	2,753	2,009	1,982	2,435	2,572	2,559	2,555	6
1903	26,029	1,720	1,669	1,618	2,080	1,905	3,072	1,902	2,082	2,598	2,424	2,520	2,417	22
1904	24,918	1,498	1,454	1,466	2,065	1,847	2,966	1,813	2,081	2,460	2,490	2,647	2,125	6
1905	26,307	1,603	1,474	1,717	1,662	2,049	3,192	2,038	2,248	2,622	2,700	2,823	2,179	.....
1906	27,519	1,816	1,741	1,583	2,025	2,095	3,333	2,189	2,376	2,753	2,718	2,667	2,168	.....
1907	27,940	1,865	1,630	1,598	2,175	2,040	3,572	2,336	2,400	2,807	2,712	2,696	2,109	.....
1908	25,765	1,702	1,591	1,608	1,830	1,780	3,242	1,995	2,254	2,692	2,390	2,499	2,179	3
Av. 1899-1908	25,338	1,666	1,521	1,517	1,945	1,870	2,931	1,970	2,096	2,503	2,547	2,553	2,206	.....

MARRIAGES BY MONTHS AND QUARTERS, 1908.

The distribution of marriages during the year 1908 is further shown in Table 47, where figures are given, not only for the number returned, but also showing the average number per day for each month, the rank on a standard scale and the rate per 1,000 persons married by months for the year. The month of highest rank, considered as to choice for marriages, was June, while February was the least frequently chosen.

Digitized by Google

Table 47.—Marriages in Michigan, by months and quarters, 1908.

Year and months.	Number of marriages, 1908. By months.	Number of marriages, 1908. By quarters.	Average number per day.	Rank.	Persons married per 1,000 estimated population.	Ten year period, 1899–1908. Average number.*	Ten year period, 1899–1908. Average daily number.*	Ten year period, 1899–1908. Rank.
Year, 1908	†25,765	25,765	70.6	1,200	19.5	26,572	72.8	1,200
January	1,702	4,901	54.9	78	15.2	1,747	56.4	77
February	1,591		56.8	80	15.7	1,595	57.0	78
March	1,608		51.9	74	14.4	1,591	51.3	70
April	1,850	6,852	61.0	86	16.9	2,040	68.0	93
May	1,780		57.4	81	15.9	1,961	63.3	87
June	3,242		108.1	157	30.0	3,074	102.5	141
July	1,995	6,941	64.4	91	17.8	2,066	66.6	91
August	2,254		72.7	103	20.2	2,198	70.9	97
September	2,692		89.7	127	24.9	2,625	87.5	120
October	2,390	7,068	77.1	109	21.4	2,671	86.2	118
November	2,499		83.3	118	23.5	2,677	89.2	123
December	2,179		70.9	100	19.5	2,313	74.6	102
Average	2,147	6,441	70.6	100	.....	2,213	.....	100

*Numbers given in Table 46 multiplied by 1.0487, the ratio between the estimated population of Michigan in 1908 and the average estimated population of the period 1899–1908. The monthly and daily numbers are therefore directly comparable for the year and ten-year period.

†Includes 3 at unknown months.

NATIVITY OF PERSONS MARRIED IN MICHIGAN, 1908.

The facts in regard to the nativity of persons married in Michigan during the year 1908, which may be found in detail in Table III, for each county of the State, are summarized in Table 48, and are compared by means of five-year averages with the corresponding figures for preceding years of registration in Table 49.

Out of the 25,765 marriages during the year, 18,058 were those in which both the bridegroom and bride were of native birth. This corresponds to a percentage of 70.2. The number of foreign born couples was 3,161, or 12.3 per cent.

Table 48.—By nativity, the number and per cent. of brides and bridegrooms returned for the year 1908.

Bridegrooms and brides—nativity specified.	Brides, 1908. Native born.	Brides, 1908. Foreign born.	Brides, 1908. Unknown.	Bridegrooms, 1908. Total of each nativity.	Bridegrooms, 1908. Per cent of each nativity.
Bridegrooms: Native born	18,058	1,535	239	19,832	77.0
Bridegrooms: Foreign born	2,735	3,161	32	5,928	23.0
Bridegrooms: Unknown	3	1	1	5	0.0
Brides: Total of each nativity	20,796	4,697	272	25,765	.....
Brides: Per cent of each nativity	80.7	18.2	1.1	.....	100.0

Digitized by Google

Table 49.—Nativity of marriages in Michigan for the years 1906-1908; compared with averages for seven quinquennial periods, 1871-1905.

Years and periods averaged.	Nativity of marriages.—Per cent of total.				
	Both native born.	Both foreign born.	Foreign groom and native bride.	Native groom and foreign bride.	One or both unknown.
Average, 1871-1875	59.7	18.5	12.3	7.0	2.6
Average, 1876-1880	63.2	14.0	13.3	7.4	2.2
Average, 1881-1885	58.2	19.4	12.4	8.7	1.3
Average, 1886-1890	56.4	20.3	13.2	8.1	2.0
Average, 1891-1895	58.0	18.2	13.2	7.9	2.6
Average, 1896-1900	63.1	14.0	12.5	8.0	2.3
Average, 1901-1905	66.1	12.7	12.4	7.4	1.1
Year 1906	67.6	12.8	11.9	6.8	0.9
Year 1907	67.3	13.7	11.5	6.5	1.1
Year 1908	70.2	12.3	10.6	6.0	1.0

AGES OF PERSONS MARRIED IN MICHIGAN, 1908.

Primary Table II shows the age distribution of persons married in Michigan by counties during the year, and Table IV shows the various age combinations of persons married by sex; that is to say, how many males under 20 married females of the same age period; how many married females aged 20-24 years, 25-29 years, and so on in order. The group of ages at which the greatest number of marriages occurred is that in which both the males and females were aged from 20-24 years, the number of marriages at these ages being 5,146. Next in order comes the group of males aged 20-24 and females under 20, of which the number was 4,612 and the then group of males aged 25-29 years with females aged 20-24 years, numbering 3,384. These three groups include 13,142 marriages, or over 50 per cent of the total number recorded. The proportions of males and females married at each age period may be seen in Tables 50 and 51 respectively, with comparisons of seven quinquennial periods.

Digitized by Google

Table 50.—Percentage of males married in Michigan at specified periods of age for the years 1906-1908; compared with averages for seven quinquennial periods, 1871-1905.

Years and periods averaged.	Ages of males married.														
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Average, 1871-1875	2.6	41.2	29.5	10.6	5.5	3.3	2.3	1.7	1.0	0.8	0.5	0.3	0.1	....	0.6
Average, 1876-1880	2.6	40.8	29.8	10.8	5.6	3.2	2.2	1.6	1.1	0.8	0.5	0.3	....	....	0.5
Average, 1881-1885	2.3	39.5	30.7	11.4	5.7	3.2	2.2	1.6	1.0	0.9	0.5	0.3	....	....	0.4
Average, 1886-1890	2.1	37.7	32.4	12.2	5.7	3.0	2.4	1.5	1.1	0.8	0.6	0.3	....	....	0.1
Average, 1891-1895	1.9	38.1	30.8	12.7	6.0	3.2	2.3	1.7	1.2	0.9	0.7	0.3	....	....	.....
Average, 1896-1900	1.8	37.7	30.6	12.5	6.6	3.4	2.5	1.7	1.2	0.9	0.6	0.3	0.1	....	.....
Average, 1901-1905	2.1	38.6	29.5	12.2	6.5	3.7	2.5	1.7	1.2	0.9	0.6	0.3	0.1	....	.....
Year 1906	2.5	40.4	28.5	11.6	5.9	3.6	2.7	1.7	1.2	0.9	0.6	0.3	0.1	....	.....
Year 1907	2.7	40.9	27.9	11.5	6.0	3.4	2.5	1.7	1.2	1.0	0.6	0.3	0.2	0.1	.....
Year 1908	3.0	40.4	26.7	11.4	6.5	3.6	2.7	1.8	1.4	1.2	0.8	0.3	0.2	....	.....

Table 51.—Percentage of females married in Michigan at specified periods of age for the years 1906-1908; compared with averages for seven quinquennial periods, 1871-1905.

Years and periods averaged.	Ages of males married.														
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Average, 1871-1875	36.9	38.5	12.7	5.0	3.0	2.0	1.3	0.8	0.5	0.3	0.2	....	....	....	0.9
Average, 1876-1880	37.4	37.4	11.7	4.7	3.1	1.0	1.3	0.8	0.5	0.3	0.2	....	....	....	0.7
Average, 1881-1885	33.8	38.7	13.7	4.9	3.1	1.9	1.3	0.8	0.5	0.3	0.2	0.1	....	....	0.6
Average, 1886-1890	32.8	39.5	14.2	5.2	2.9	1.9	1.3	0.9	0.6	0.4	0.2	0.1	....	....	0.2
Average, 1891-1895	30.8	40.6	14.3	5.3	3.1	2.0	1.4	1.0	0.6	0.5	0.2	0.1	....	....	.....
Average, 1896-1900	28.1	41.3	15.5	5.7	3.4	2.0	1.5	1.0	0.7	0.5	0.2	0.1	....	....	.....
Average, 1901-1905	27.1	40.5	16.3	6.1	3.4	2.2	1.5	1.0	0.6	0.5	0.3	0.1	....	....	.....
Year 1906	27.4	40.5	15.8	6.1	3.5	2.2	1.9	1.0	0.7	0.5	0.2	0.1	....	....	.....
Year 1907	27.4	40.3	15.5	6.5	3.8	2.2	1.5	1.1	0.8	0.5	0.3	0.1	....	....	.....
Year 1908	27.6	39.3	15.6	6.4	3.8	2.5	1.7	1.2	0.9	0.6	0.3	0.1	....	....	.....

Digitized by Google

PART V.—DIVORCES IN MICHIGAN DURING THE YEAR 1908.

There were 3,020 divorces granted in Michigan during the year 1908, according to the returns of the county clerks of the State. This number, as shown in Table 6, corresponds to a rate of 2.3 persons divorced per 1,000 estimated population.

By referring to Table 52 it will be noted that of the 3,020 divorces granted during the year, 804, or 26.6 per cent, were granted on the application of the husband, and 2,216, or 73.4 per cent, were granted upon application of the wife.

It is also noticeable that in 1,579 cases of divorce granted during the year, or a trifle over fifty per cent of the total number, there were no children in the families broken up by divorce.

Table 52.—Children affected by divorces in Michigan during the year 1908, showing the relation of sex of complainant to size of family.

Complaints.	Total divorces granted, 1908.	Number of children in family.												
		None.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Unk.
Total divorces	3,020	1,579	697	374	154	98	45	38	16	9	1	5	1	3
Husbands	804	486	143	90	41	19	11	11	2	.....	.....	1	.....	.....
Wives	2,216	1,093	554	284	113	79	34	27	14	9	1	4	1	3
Per cent of husbands	26.6	30.8	20.5	24.1	26.6	19.4	24.4	28.9	12.5	.....	.....	20.0	.....	.....
Per cent of wives	73.4	69.2	79.5	75.9	73.4	80.6	75.6	71.1	87.5	100.0	100.0	80.0	100.0	100.0
Total number of children affected	3,006	.....	697	748	462	392	225	228	112	72	9	50	11	.....

DURATION OF MARRIAGE PRIOR TO DIVORCE, 1908.

According to Table 53, there were 1,055 divorces granted in which the couples had been married less than five years; then follows the group 5-9 years, inclusive, 835; 10-14 years, 451; 15-19 years, 256. The number of divorces decreases very rapidly from this point.

Digitized by Google

Table 53.—Duration of marriages terminated by divorces granted in Michigan during 1908, showing relation of sex of complainant to lapse of time before divorce.

Complaints.	Divorces granted, 1908.	Duration of marriage before divorce.																
		Years under five.					Five year periods.											
		Under 1 yr.	1.	2.	3.	4.	Under 2 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	Unknown.
Total divorces....	3,020	74	214	240	260	267	1055	835	451	256	199	117	61	22	9	4	1	10
Husbands.....	804	22	56	64	72	73	287	230	109	64	51	28	19	6	4	.....	1	5
Wives.....	2,216	52	158	176	188	194	768	605	342	192	148	89	42	16	5	4	.....	5
Per cent of husbands..	26.6	29.7	26.2	26.7	27.7	27.3	27.2	27.5	24.2	25.0	25.6	23.9	31.1	27.3	44.4	.....	100.0	50.0
Per cent of wives.....	73.4	70.3	73.8	73.3	72.3	72.7	72.8	72.5	75.8	75.0	74.4	76.1	68.9	72.7	55.6	100.0	.....	50.0

CAUSES OF DIVORCES GRANTED IN MICHIGAN, 1908.

According to the returns as shown in Table 54, "Cruelty" was the leading cause, as usual, for divorces, 41.4 per cent of the total number granted, being attributable to it. Of this number, 425 were granted upon complaint of the husband, and 825 on complaint of the wife. The next in order as a leading cause for divorce was "Desertion," with 532 divorces, 273 being granted on complaint of the husband, and 259 on complaint of the wife. "Non-support" would follow next in order, there being 342 divorces from this cause. "Drunkenness" shows 43 divorces granted, 5 being granted on complaint of the husband and 38 on complaint of the wife.

Digitized by Google

Table 54.—Principal causes of divorce in Michigan during the year 1908, showing by sex the percentage of complainants from each cause.

Causes alleged.	Number of divorces granted, 1908.			Per cent of total.		
	Total.	To husbands.	To wives.	Total.	To husbands.	To wives.
ALL CAUSES	3,020	804	2,216	100.0	26.6	73.4
Adultery	*66*	*47*	*19*	*2.2*	*5.8*	*0.9*
Adultery (sole cause alleged)	46	36	10	1.5	4.5	0.5
Adultery (with other causes)	20	11	9	0.7	1.4	0.4
Cruelty	*1,840*	*470*	*1,370*	*60.9*	*58.5*	*61.8*
Cruelty (sole cause alleged)	1,250	425	825	41.4	52.9	37.2
Cruelty (with other causes)	590	45	545	19.5	5.6	24.6
Desertion	*756*	*308*	*448*	*25.0*	*38.3*	*20.2*
Desertion (sole cause alleged)	532	273	259	17.6	34.0	11.7
Desertion (with other causes)	224	35	189	7.4	4.4	8.5
Drunkenness	*203*	*12*	*191*	*6.7*	*1.5*	*8.6*
Drunkenness (sole cause alleged)	43	5	38	1.4	0.6	1.7
Drunkenness (with other causes)	160	7	153	5.3	0.9	6.9
Non-support	*941*	.....	*941*	*31.2*	.....	*42.5*
Non-support (sole cause alleged)	342	.....	342	11.3	.....	15.4
Non-support (with other causes)	599	.....	599	19.8	.....	27.0

Digitized by Google

Digitized by Google

TABLES

RELATING TO

BIRTHS

IN

MICHIGAN

DURING THE

YEAR 1908.

Digitized by Google

PRIMARY TABLES RELATING TO BIRTHS IN MICHIGAN DURING THE YEAR 1908.

Table 1.—Births in Michigan, by months, counties and sex, for the year 1908. (Stillbirths included).

Table 2.—Births in Michigan, by nativity of parents, counties and sex, for the year 1908. (Stillbirths included).

Table 3.—Stillbirths, twins and illegitimate births in Michigan, by counties, for the year 1908.

Table 4.—Stillbirths, twins and illegitimate births in Michigan, by months and sex, for the year, 1908.

Digitized by Google

Table I.—Births in Michigan by months, counties and sex, during the year 1908. (Stillbirths included).

State and counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
STATE.....	Total....	64,772	5,085	5,156	6,125	5,769	5,925	5,385	5,559	5,722	5,334	5,144	4,705	4,860
	Males...	33,523	2,655	2,675	3,274	2,997	3,012	2,805	2,865	3,006	2,782	2,626	2,335	2,491
	Females.	31,249	2,430	2,481	2,851	2,772	2,913	2,580	2,694	2,716	2,552	2,518	2,370	2,372
Alcona.....	Totals...	134	5	12	9	10	17	14	17	10	6	9	11	14
	Males...	59	3	8	6	3	8	8	5	4	5	2	2	5
	Females.	75	2	4	3	7	9	6	12	6	1	7	9	9
Alger.....	Totals...	184	8	12	22	13	12	16	21	16	24	18	9	13
	Males...	90	6	8	11	7	8	6	10	5	15	8	2	4
	Females.	94	2	4	11	6	4	10	11	11	9	10	7	9
Allegan.....	Totals...	932	84	71	77	83	79	67	96	70	79	70	73	83
	Males...	475	40	35	40	35	45	35	49	36	42	38	43	37
	Females.	457	44	36	37	48	34	32	47	34	37	32	30	46
Alpena.....	Totals...	206	15	24	18	23	18	17	16	20	14	13	10	18
	Males...	113	8	14	8	16	10	12	8	9	5	7	6	10
	Females.	93	7	10	10	7	8	5	8	11	9	6	4	8
Antrim.....	Totals...	420	22	35	52	33	39	39	22	44	32	38	32	32
	Males...	193	11	23	26	13	18	15	10	24	14	16	13	10
	Females.	227	11	12	26	20	21	24	12	20	18	22	19	22
Arenac.....	Totals...	249	17	17	30	16	20	22	25	24	18	17	14	29
	Males...	136	10	12	18	12	11	16	13	11	9	8	3	13
	Females.	113	7	5	12	4	9	6	12	13	9	9	11	16
Baraga.....	Totals...	110	12	11	12	10	6	13	8	6	3	11	9	9
	Males...	65	8	11	11	6	5	3	3	4	3	4	6	4
	Females.	45	4	6	1	4	1	7	5	2	.....	7	3	5
Barry.....	Totals...	446	38	37	45	34	32	37	36	45	42	36	29	35
	Males...	245	23	19	23	21	14	22	20	23	23	19	16	22
	Females.	201	15	18	22	13	18	15	16	22	19	17	13	13
Bay.....	Totals...	1,898	149	173	193	173	185	143	136	166	151	142	136	151
	Males...	1,010	89	93	105	94	98	71	77	87	87	66	64	79
	Females.	888	60	80	88	79	87	72	59	79	64	76	72	72
Benzie.....	Totals...	336	30	25	29	39	29	34	32	28	27	25	16	22
	Males...	163	17	11	15	20	13	17	19	11	18	12	5	5
	Females.	173	13	14	14	19	16	17	13	17	9	13	11	17
Berrien.....	Totals...	1,044	91	84	101	93	87	90	95	85	77	82	82	77
	Males...	528	47	41	56	54	43	45	44	41	38	39	42	38
	Females.	516	44	43	45	39	44	45	51	44	39	43	40	39
Branch.....	Totals...	479	41	36	35	37	52	43	41	46	41	38	32	37
	Males...	261	20	19	20	24	19	23	27	24	23	22	18	22
	Females.	218	21	17	15	13	33	20	14	22	18	16	14	15
Calhoun.....	Totals...	1,040	89	82	91	90	83	93	106	91	76	78	79	73
	Males...	540	44	43	48	41	33	42	51	44	44	55	44	45
	Females.	500	45	39	43	49	50	51	55	41	32	32	35	28
Cass.....	Totals...	373	35	25	50	42	23	32	27	26	27	28	26	32
	Males...	206	18	16	25	24	14	21	15	12	13	17	14	17
	Females.	167	17	9	25	18	9	11	12	14	14	11	12	15
Charlevoix.....	Totals...	486	29	42	63	40	35	54	43	46	41	28	35	30
	Males...	257	14	14	37	22	17	32	22	25	21	15	20	18
	Females.	229	15	28	26	18	18	22	21	21	20	13	15	12
Cheboygan.....	Totals...	469	39	48	55	44	38	48	30	41	39	33	31	23
	Males...	255	20	27	31	25	18	28	17	26	17	16	19	11
	Females.	214	19	21	24	19	20	20	13	15	22	17	12	12
Chippewa.....	Totals...	670	57	68	59	58	58	42	56	58	56	56	46	56
	Males...	329	23	32	29	31	37	25	21	27	26	25	25	28
	Females.	341	34	36	30	27	21	17	35	31	30	31	21	28

Digitized by Google

Table I.—Continued.—Births in Michigan by months, counties and sex, 1908.

Counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Clare	Totals	257	14	22	20	27	28	23	24	24	23	22	16	14
	Males	127	8	11	10	15	12	13	12	13	10	6	7	10
	Females	130	6	11	10	12	16	10	12	11	13	16	9	4
Clinton	Totals	498	36	52	43	43	40	41	50	44	43	34	37	35
	Males	248	19	26	24	23	23	18	28	22	18	13	19	15
	Females	250	17	26	19	20	17	23	22	22	25	21	18	20
Crawford	Totals	137	8	13	8	16	23	14	12	9	7	7	13	8
	Males	82	3	9	6	11	14	9	6	2	4	3	8	7
	Females	55	5	4	2	5	8	5	6	7	3	4	5	1
Delta	Totals	881	64	75	110	95	70	79	77	72	54	66	59	60
	Males	463	34	35	59	43	33	44	44	42	36	42	23	28
	Females	418	30	40	51	52	37	35	33	30	18	24	36	32
Dickinson	Totals	673	65	49	58	55	73	52	60	50	57	54	52	48
	Males	330	32	27	21	29	42	27	30	21	29	28	24	20
	Females	343	33	22	37	26	31	25	30	29	28	26	28	28
Eaton	Totals	625	42	49	67	45	64	44	65	57	47	57	42	45
	Males	349	28	26	45	25	33	25	32	32	29	33	19	22
	Females	276	14	23	22	20	31	19	33	25	18	24	24	23
Emmet	Totals	512	47	49	45	33	41	51	52	48	44	35	33	34
	Males	274	28	17	27	23	17	24	24	23	23	21	20	17
	Females	238	19	32	18	10	24	27	19	24	21	14	13	17
Genesee	Totals	929	65	69	87	95	93	88	76	76	73	74	47	86
	Males	514	39	36	50	46	47	42	50	43	39	44	27	51
	Females	415	26	33	37	49	46	46	26	33	34	30	20	35
Gladwin	Totals	252	22	10	32	23	24	20	20	28	19	21	23	10
	Males	119	15	8	15	10	14	9	10	8	5	11	6	8
	Females	133	7	2	17	13	10	11	10	20	14	10	17	2
Gogebic	Totals	917	67	80	92	77	90	68	56	71	92	79	64	81
	Males	459	22	45	48	39	52	33	25	34	56	34	34	37
	Females	458	45	35	44	38	38	35	31	37	36	45	30	44
Gd. Traverse	Totals	554	52	35	59	49	54	51	40	43	56	47	34	34
	Males	286	22	18	25	24	31	29	19	26	31	27	15	19
	Females	268	30	17	34	25	23	22	21	17	25	20	19	15
Gratiot	Totals	711	45	64	70	63	69	51	55	76	65	57	46	50
	Males	366	20	34	39	35	35	29	27	41	25	32	20	29
	Females	345	25	30	31	28	34	22	28	35	40	25	26	21
Hillsdale	Totals	566	37	57	50	50	55	51	44	45	54	40	44	39
	Males	314	23	33	29	21	24	29	25	28	35	23	25	19
	Females	252	14	24	21	29	31	22	19	17	19	17	19	20
Houghton	Totals	3,166	227	273	323	288	283	253	267	286	235	252	226	253
	Males	1,583	98	133	171	142	141	127	138	161	120	120	108	124
	Females	1,583	129	140	152	146	142	126	129	125	115	132	118	129
Huron	Totals	950	61	70	96	79	106	68	86	87	74	75	71	77
	Males	509	34	40	61	39	61	37	40	45	40	33	41	38
	Females	441	27	30	35	40	45	31	46	42	34	42	30	39
Ingham	Totals	946	82	74	72	80	94	88	74	102	87	64	61	68
	Males	493	36	43	39	43	47	53	35	42	44	39	31	41
	Females	453	46	31	33	37	47	35	39	60	43	25	30	27
Ionia	Totals	698	54	67	54	64	62	46	60	79	55	49	51	57
	Males	354	23	32	27	37	34	21	25	40	29	27	29	30
	Females	344	31	35	27	27	28	25	35	39	26	22	22	27
Iosco	Totals	238	12	24	29	26	20	23	23	24	13	19	9	16
	Males	123	9	8	16	8	10	12	13	14	8	12	4	9
	Females	115	3	16	13	18	10	11	10	10	5	7	5	7
Iron	Totals	389	25	28	34	42	38	37	33	31	19	27	45	30
	Males	190	11	12	16	20	17	21	15	17	12	11	28	10
	Females	199	14	16	18	22	21	16	18	14	7	16	17	20

Digitized by Google

Table I.—Continued.—Births in Michigan, by Months, Counties and Sex, 1908.

Counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Isabella	Totals	624	50	46	63	50	76	55	49	68	40	43	44	40
	Males	311	21	24	33	25	39	33	25	36	15	23	21	16
	Females	313	29	22	30	25	37	22	24	32	25	20	23	24
Jackson	Totals	962	61	78	102	74	109	93	81	79	75	82	56	72
	Males	505	29	48	50	39	52	50	44	42	47	40	28	36
	Females	457	32	30	52	35	57	43	37	37	28	42	28	36
Kalamazoo	Totals	1,151	106	75	114	110	90	77	119	93	87	84	108	88
	Males	579	56	37	60	53	39	34	59	56	43	48	50	44
	Females	572	50	38	54	57	51	43	60	37	44	36	58	44
Kalkaska	Totals	246	22	14	22	17	28	28	18	30	22	20	12	13
	Males	131	15	7	14	8	13	13	11	15	10	12	7	6
	Females	115	7	7	8	9	15	15	7	15	12	8	5	7
Kent	Totals	3,668	324	287	339	318	325	296	318	330	312	303	249	267
	Males	1,871	164	141	179	157	161	145	159	179	169	157	125	135
	Females	1,797	160	146	160	161	164	151	159	151	143	146	124	132
Keweenaw	Totals	317	23	20	27	28	25	23	31	22	19	35	32	32
	Males	161	14	15	14	14	11	10	17	12	10	16	12	16
	Females	156	9	5	13	14	14	13	14	10	9	19	20	16
Lake	Totals	114	7	5	8	7	15	9	4	18	9	11	11	10
	Males	64	3	3	5	4	11	4	2	10	6	4	7	5
	Females	50	4	2	3	3	4	5	2	8	3	7	4	5
Lapeer	Totals	587	35	37	49	60	62	44	46	59	66	53	44	32
	Males	318	19	22	28	33	35	21	20	33	39	33	22	13
	Females	269	16	15	21	27	27	23	26	26	27	20	22	19
Leelanau	Totals	293	20	26	26	30	28	30	14	26	24	28	16	25
	Males	151	11	12	12	18	12	17	6	10	16	18	5	14
	Females	142	9	14	14	12	16	13	8	16	8	10	11	11
Lenawee	Totals	909	88	85	91	73	67	88	84	58	74	74	63	64
	Males	741	50	49	47	39	39	45	40	30	32	41	30	29
	Females	438	38	36	44	34	28	43	44	28	42	33	33	35
Livingston	Totals	369	22	25	42	27	33	29	36	35	31	30	35	24
	Males	197	15	9	20	17	19	19	20	20	21	12	17	8
	Females	172	7	16	22	10	14	10	16	15	10	18	18	16
Luce	Totals	105	8	16	13	6	12	9	4	11	7	13	4	2
	Males	46	2	5	6	2	5	3	3	7	3	8	1	1
	Females	59	6	11	7	4	7	6	1	4	4	5	3	1
Mackinac	Totals	186	12	9	21	17	15	17	13	23	19	17	9	14
	Males	95	4	4	10	6	9	11	6	10	12	10	4	9
	Females	91	8	5	11	11	6	6	7	13	7	7	5	5
Macomb	Totals	679	46	51	71	64	54	56	47	58	61	62	60	49
	Males	349	24	29	33	38	30	29	22	27	31	32	32	22
	Females	330	22	22	38	26	24	27	25	31	30	30	28	27
Manistee	Totals	682	53	58	60	68	61	68	57	46	70	50	44	47
	Males	352	31	32	37	31	31	32	33	29	32	21	19	24
	Females	330	22	26	23	37	30	36	24	17	38	29	25	23
Marquette	Totals	1,333	98	92	104	141	126	116	113	118	113	100	103	109
	Males	675	51	44	51	67	59	49	54	64	58	51	66	61
	Females	658	47	48	53	74	67	67	59	54	55	49	37	48
Mason	Totals	452	35	28	56	41	49	35	33	39	38	37	30	31
	Males	237	19	18	28	21	28	16	18	18	21	18	17	15
	Females	215	16	10	28	20	21	19	15	21	17	19	13	16
Mecosta	Totals	493	46	43	51	49	38	31	48	44	33	41	33	36
	Males	260	26	24	25	21	26	16	21	24	17	23	20	17
	Females	233	20	19	26	28	12	15	27	20	16	18	13	19
Menominee	Totals	552	51	45	68	64	56	57	35	32	36	42	24	42
	Males	285	35	27	35	32	21	36	17	18	15	23	9	17
	Females	267	16	18	33	32	35	21	18	14	21	19	15	25

Digitized by Google

Table I.—Continued.—Births in Michigan by months, counties and sex, 1908.

Counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Midland.....	Totals...	382	25	35	30	36	32	29	36	36	33	29	32	29
	Males...	204	12	19	16	17	17	15	21	22	19	14	13	19
	Females.	178	13	16	14	19	15	14	15	14	14	15	19	10
Missaukee.....	Totals...	312	23	25	30	34	19	23	23	33	36	21	23	22
	Males...	145	7	11	11	16	9	12	15	12	20	14	10	8
	Females.	167	16	14	19	18	10	11	8	21	16	7	13	14
Monroe.....	Totals...	666	44	49	72	56	63	48	61	80	50	40	48	55
	Males...	337	24	26	40	28	27	25	37	38	26	18	20	28
	Females.	329	20	23	32	28	36	23	24	42	24	22	28	27
Montcalm.....	Totals...	810	81	66	70	79	56	58	88	71	75	61	56	49
	Males...	399	43	29	40	31	30	23	45	35	39	33	30	21
	Females.	411	38	37	30	48	26	35	43	36	36	28	26	28
Montmorency..	Totals...	119	8	15	11	16	9	13	10	8	9	10	5	5
	Males...	55	2	10	8	8	2	6	2	5	3	4	2	3
	Females.	64	6	5	3	8	7	7	8	3	6	6	3	2
Muskegon.....	Totals...	896	77	76	74	84	81	65	78	61	69	73	82	76
	Males...	454	44	38	44	40	47	32	40	30	29	37	31	42
	Females.	442	33	38	30	44	34	33	38	31	40	36	51	34
Newaygo.....	Totals...	457	26	42	42	45	48	47	41	43	30	30	37	26
	Males...	240	15	21	17	25	29	28	21	23	16	14	17	14
	Females.	217	11	21	25	20	19	19	20	20	14	16	20	12
Oakland.....	Totals...	861	77	66	82	67	83	72	84	82	76	53	60	59
	Males...	450	43	31	39	38	45	43	46	42	36	30	27	30
	Females.	411	34	35	43	29	38	29	38	40	40	23	33	29
Oceana.....	Totals...	418	30	32	33	39	42	38	37	42	39	23	33	30
	Males...	198	16	14	15	19	22	16	15	24	20	9	15	13
	Females.	220	14	18	18	20	20	22	22	18	19	14	18	17
Ogemaw.....	Totals...	280	20	25	24	33	20	37	20	19	25	18	20	19
	Males...	155	13	15	13	15	9	19	11	10	11	13	14	12
	Females.	125	7	10	11	18	11	18	9	9	14	5	6	7
Ontonagon.....	Totals...	291	20	31	18	28	29	24	24	23	18	21	27	28
	Males...	143	11	15	9	14	12	12	11	13	5	11	15	15
	Females.	148	9	16	9	14	17	12	13	10	13	10	12	13
Osceola.....	Totals...	492	36	46	33	44	46	35	40	59	39	40	40	34
	Males...	254	14	29	20	18	22	13	28	34	21	18	21	16
	Females.	238	22	17	13	26	24	22	12	25	18	22	19	18
Oscoda.....	Totals...	54	3	3	5	4	3	7	3	7	4	5	6	4
	Males...	25	2	1	.....	1	2	5	.....	5	1	2	4	2
	Females.	29	1	2	5	3	1	2	3	2	3	3	2	2
Otsego.....	Totals...	158	12	5	23	19	12	15	19	15	12	8	10	8
	Males...	81	5	3	16	10	8	7	8	8	5	4	2	5
	Females.	77	7	2	7	9	4	8	11	7	7	4	8	3
Ottawa.....	Totals...	1,179	92	100	125	112	108	93	97	109	96	90	76	81
	Males...	592	42	45	68	62	48	39	49	63	46	43	43	44
	Females.	587	50	55	57	50	60	54	48	46	50	47	33	37
Presque Isle...	Totals...	354	19	29	33	41	36	33	31	27	37	25	23	20
	Males...	190	13	17	13	25	18	18	16	19	16	13	10	12
	Females.	164	6	12	20	16	18	15	15	8	21	12	13	8
Roscommon....	Totals...	54	5	2	5	6	3	1	4	.....	12	9	3	4
	Males...	31	2	2	2	6	3	.....	1	.....	6	5	2	2
	Females.	23	3	.....	3	.....	.....	1	3	.....	6	4	1	2
Saginaw.....	Totals...	1,933	147	150	186	183	206	147	161	171	140	171	138	133
	Total....	991	77	73	98	100	94	81	86	85	80	85	67	65
	Females.	942	70	77	88	83	112	66	75	86	60	86	71	68
St. Clair.....	Totals...	1,217	90	85	120	96	114	86	100	106	118	110	91	101
	Males...	641	50	41	70	55	57	41	52	46	64	55	46	64
	Females.	576	40	44	50	41	57	45	48	60	54	55	45	37

Digitized by Google

Table I.—Concluded.—Births in Michigan by months, counties and sex, 1908.

Counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
St. Joseph.....	Totals...	461	42	41	40	37	40	40	38	34	47	36	35	31
	Males...	231	22	21	24	19	24	19	20	17	25	14	12	14
	Females.	230	20	20	16	18	16	21	18	17	22	22	23	17
Sanilac.....	Totals...	958	73	54	85	73	108	84	88	79	76	89	77	72
	Males...	508	33	28	49	43	53	43	47	43	46	44	34	45
	Females.	450	40	26	36	30	55	41	41	36	30	45	43	27
Schoolcraft.....	Totals...	273	20	22	31	32	19	24	28	26	24	15	16	16
	Males...	147	14	12	22	16	8	14	13	12	13	5	9	9
	Females.	126	6	10	9	16	11	10	15	14	11	10	7	7
Shiawassee.....	Totals...	714	53	44	67	55	77	54	51	62	56	71	63	61
	Males...	383	32	22	31	26	37	27	27	38	32	38	42	31
	Females.	331	21	22	36	29	40	27	24	24	24	33	21	30
Tuscola.....	Totals...	787	54	58	71	77	66	67	56	61	78	71	71	57
	Males...	419	28	31	37	52	35	41	26	31	40	34	32	32
	Females.	368	26	27	34	25	31	26	30	30	38	37	39	25
Van Buren....	Totals...	730	76	39	68	48	59	59	62	68	59	68	54	70
	Males...	385	45	23	35	21	29	35	30	36	27	39	23	42
	Females.	345	31	16	33	27	30	24	32	32	32	29	31	28
Washtenaw....	Totals...	805	68	73	83	81	69	55	74	69	56	58	55	64
	Males...	423	37	36	50	51	32	25	36	36	30	24	30	36
	Females.	382	31	37	33	30	37	30	38	33	26	34	25	28
Wayne.....	Totals...	11,491	935	902	998	965	1,016	967	1,018	1,009	959	924	850	948
	Males...	6,007	502	475	533	512	531	522	535	536	483	466	426	486
	Females.	5,484	433	427	465	453	485	445	483	473	476	458	424	462
Wexford.....	Totals...	582	36	39	49	47	53	51	56	59	55	40	53	44
	Males...	299	13	24	30	23	24	35	32	29	30	22	16	21
	Females.	283	23	15	19	24	29	16	24	30	25	18	37	23

Digitized by Google

Table II.—Births in Michigan, by nativity of parents, counties and sex, for the year 1908. (Stillbirths included.)

State and counties.	Sex.	Children born in 1908.	Nativity of parents of children born in 1908.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father—		Father unknown. Mother—		Both unknown.
							Native.	Foreign.	Native.	Foreign.	
STATE	Totals	64,772	36,799	14,858	7,793	4,404	53	15	598	131	121
	Males	33,523	19,088	7,626	4,078	2,255	30	7	305	65	69
	Females	31,249	17,711	7,232	3,715	2,149	23	8	293	66	52
Alcona	Totals	134	62	25	34	11	.....	.....	2	.....	....
	Males	59	25	11	14	7	.....	.....	2	.....	....
	Females	75	37	14	20	4	.....	.....	.....	.....	....
Alger	Totals	184	49	93	30	11	.....	.....	.....	1	....
	Males	90	25	43	18	3	.....	.....	.....	1	....
	Females	94	24	50	12	8	.....	.....	.....	.....	....
Allegan	Totals	932	734	58	79	51	2	.....	7	.....	1
	Males	475	376	27	47	22	2	.....	1	.....	....
	Females	457	358	31	32	29	.....	.....	6	.....	1
Alpena	Totals	206	77	57	44	25	.....	.....	1	1	1
	Males	113	40	31	25	15	.....	.....	1	1	....
	Females	93	37	26	19	10	.....	.....	.....	.....	1
Antrim	Totals	420	290	44	63	23	.....	.....	.....	.....	....
	Males	193	132	21	29	11	.....	.....	.....	.....	....
	Females	227	158	23	34	12	.....	.....	.....	.....	....
Arenac	Totals	249	137	37	44	26	1	.....	3	.....	1
	Males	136	74	21	21	17	.....	.....	3	.....	....
	Females	113	63	16	23	9	1	.....	.....	.....	1
Baraga	Totals	110	25	54	20	9	.....	.....	2	.....	....
	Males	65	15	29	14	6	.....	.....	1	.....	....
	Females	45	10	25	6	3	.....	.....	1	.....	....
Barry	Totals	446	411	9	12	12	1	.....	1	.....	....
	Males	245	231	5	3	4	1	.....	1	.....	....
	Females	201	180	4	9	8	.....	.....	.....	.....	....
Bay	Totals	1,898	937	395	352	187	.....	3	17	3	4
	Males	1,010	506	209	183	97	.....	2	8	2	3
	Females	888	431	186	169	90	.....	1	9	1	1
Benzie	Totals	336	252	28	31	20	1	.....	2	.....	2
	Males	163	124	13	17	8	.....	.....	.....	.....	1
	Females	173	128	15	14	12	1	.....	2	.....	1
Berrien	Totals	1,044	760	163	68	46	1	.....	4	2	....
	Males	528	384	70	41	28	1	.....	2	2	....
	Females	516	376	93	27	18	.....	.....	2	.....	....
Branch	Totals	479	450	13	10	6	.....	.....	.....	.....	....
	Males	261	249	5	3	4	.....	.....	.....	.....	....
	Females	218	201	8	7	2	.....	.....	.....	.....	....
Calhoun	Totals	1,040	874	44	66	43	1	.....	10	1	1
	Males	540	462	22	32	20	.....	.....	3	.....	1
	Females	500	412	22	34	23	1	.....	7	1	....
Cass	Totals	373	345	3	9	7	.....	.....	9	.....	....
	Males	206	189	1	6	6	.....	.....	4	.....	....
	Females	167	156	2	3	1	.....	.....	5	.....	....
Charlevoix	Totals	486	364	45	41	33	.....	.....	3	.....	....
	Males	257	184	26	23	23	.....	.....	1	.....	....
	Females	229	180	19	18	10	.....	.....	2	.....	....

Digitized by Google

Table II.—Continued.—Births by counties, parent nativity and sex, 1908.

Counties.	Sex.	Children born in 1908.	Nativity of parents of children born in 1908.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father—		Father unknown. Mother—		Both unknown.
							Native.	Foreign.	Native.	Foreign.	
Cheboygan	Totals	469	239	63	103	54	1	.....	6	.....	3
	Males	255	120	42	61	28	.....	.....	3	.....	1
	Females	214	119	21	42	26	1	.....	3	.....	2
Chippewa	Totals	670	157	310	117	75	2	.....	6	2	1
	Males	329	83	145	69	28	1	.....	2	1	....
	Females	341	74	165	48	47	1	.....	4	1	1
Clare	Totals	257	190	17	28	16	.....	.....	5	.....	1
	Males	127	96	6	13	8	.....	.....	4	.....	....
	Females	130	94	11	15	8	.....	.....	1	.....	1
Clinton	Totals	498	435	12	13	15	.....	.....	3	.....	....
	Males	248	213	6	20	7	.....	.....	2	.....	....
	Females	250	222	6	13	8	.....	.....	1	.....	....
Crawford	Totals	137	81	27	15	13	.....	.....	1	.....	....
	Males	82	50	15	10	7	.....	.....	.....	.....	....
	Females	55	31	12	5	6	.....	.....	1	.....	....
Delta	Totals	881	318	338	162	57	1	.....	3	2	....
	Males	463	174	173	87	26	.....	.....	2	1	....
	Females	418	144	165	75	31	1	.....	1	1	....
Dickinson	Totals	673	85	490	72	22	.....	.....	1	2	1
	Males	330	30	237	39	22	.....	.....	1	.....	1
	Females	343	55	253	33	.....	.....	.....	.....	2	....
Eaton	Totals	625	558	17	30	13	1	.....	6	.....	....
	Males	349	313	8	16	7	1	.....	4	.....	....
	Females	276	245	9	14	6	.....	.....	2	.....	....
Emmet	Totals	512	356	52	60	36	2	.....	6	.....	....
	Males	274	194	30	31	16	1	.....	2	.....	....
	Females	238	162	22	29	20	1	.....	4	.....	....
Genesee	Totals	929	752	40	73	58	.....	.....	6	.....	....
	Males	514	416	24	40	31	.....	.....	3	.....	....
	Females	415	336	16	33	27	.....	.....	3	.....	....
Gladwin	Totals	252	157	38	41	14	.....	.....	2	.....	....
	Males	119	75	18	21	4	.....	.....	1	.....	....
	Females	133	82	20	20	10	.....	.....	1	.....	....
Gogebic	Totals	917	57	757	70	25	.....	.....	2	6	....
	Males	459	30	376	37	14	.....	.....	1	1	....
	Females	458	27	381	33	11	.....	.....	1	5	....
Grand Traverse	Totals	554	408	38	59	35	1	.....	10	3	....
	Males	286	222	19	25	15	1	.....	4	.....	....
	Females	268	186	19	34	20	.....	.....	6	3	....
Gratiot	Totals	711	618	20	43	19	2	.....	6	2	1
	Males	366	317	11	24	4	1	.....	6	2	1
	Females	345	301	9	19	15	1	.....	.....	.....	....
Hillsdale	Totals	566	542	2	11	6	1	.....	4	.....	....
	Males	314	302	2	6	2	1	.....	1	.....	....
	Females	252	240	.....	5	4	.....	.....	3	.....	....
Houghton	Totals	3,166	572	1,963	442	174	.....	2	5	8	....
	Males	1,583	273	978	233	91	.....	1	3	4	....
	Females	1,583	299	985	209	83	.....	1	2	4	....
Huron	Totals	950	402	211	210	122	4	1	.....	.....	....
	Males	509	218	107	118	63	3	.....	.....	.....	....
	Females	441	184	104	92	59	1	1	.....	.....	....

Digitized by Google

Table II.—Continued.—Births by counties, parent nativity and sex, 1908.

Counties.	Sex.	Children born in 1908.	Nativity of parents of children born in 1908.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father—		Father unknown. Mother—		Both unknown.
							Native.	Foreign.	Native.	Foreign.	
Ingham	Totals	946	751	80	62	42	1	.....	9	.....	1
	Males	493	386	39	38	22	1	.....	6	.....	1
	Females	453	365	41	24	20	.....	.....	3	.....	....
Ionia	Totals	698	615	24	28	19	2	.....	10	.....	....
	Males	354	309	14	15	11	1	.....	4	.....	....
	Females	344	306	10	13	8	1	.....	6	.....	....
Iosco	Totals	238	106	47	51	26	1	.....	6	.....	1
	Males	123	51	23	29	16	1	.....	2	.....	1
	Females	115	55	24	22	10	.....	.....	4	.....	....
Iron	Totals	389	70	233	56	26	.....	1	1	2	....
	Males	190	39	114	21	13	.....	.....	1	2	....
	Females	199	31	119	35	13	.....	1	.....	.....	....
Isabella	Totals	624	463	39	80	35	2	.....	5	.....	....
	Males	311	227	19	45	16	.....	.....	4	.....	....
	Females	313	236	20	35	19	2	.....	1	.....	....
Jackson	Totals	962	764	71	53	56	2	1	10	1	4
	Males	505	396	36	26	37	1	.....	8	.....	1
	Females	457	368	35	27	19	1	1	2	1	3
Kalamazoo	Totals	1,151	811	181	85	64	1	.....	7	2	....
	Males	579	402	92	45	33	1	.....	5	1	....
	Females	572	409	89	40	31	.....	.....	2	1	....
Kalkaska	Totals	246	188	10	32	12	1	1	2	.....	....
	Males	131	103	4	18	3	1	1	1	.....	....
	Females	115	85	6	14	9	.....	.....	1	.....	....
Kent	Totals	3,668	1,758	1,109	475	258	2	.....	58	8	....
	Males	1,871	845	616	232	146	1	.....	27	4	....
	Females	1,797	913	493	243	112	1	.....	31	4	....
Keweenaw	Totals	317	50	220	32	14	.....	.....	.....	1	....
	Males	161	24	116	16	5	.....	.....	.....	.....	....
	Females	156	26	104	16	9	.....	.....	.....	1	....
Lake	Totals	114	79	9	21	8	1	.....	1	.....	....
	Males	64	42	3	14	3	1	.....	1	.....	....
	Females	50	32	6	7	5	.....	.....	.....	.....	....
Lapeer	Totals	587	420	41	84	35	2	.....	4	.....	1
	Males	318	222	23	51	20	1	.....	1	.....	....
	Females	269	198	18	33	15	1	.....	3	.....	1
Leelanau	Totals	293	184	36	45	24	.....	.....	2	1	1
	Males	151	101	17	22	10	.....	.....	.....	1	....
	Females	142	83	19	23	14	.....	.....	2	.....	1
Lenawee	Totals	909	774	44	56	30	.....	.....	5	.....	....
	Males	471	404	21	28	16	.....	.....	2	.....	....
	Females	438	370	23	28	14	.....	.....	3	.....	....
Livingston	Totals	369	324	14	13	15	1	.....	2	.....	....
	Males	197	173	8	9	7	.....	.....	.....	.....	....
	Females	172	151	6	4	8	1	.....	2	.....	....
Luce	Totals	105	28	52	14	10	.....	.....	.....	.....	1
	Males	46	13	21	7	5	.....	.....	.....	.....	....
	Females	59	15	31	7	5	.....	.....	.....	.....	1
Mackinac	Totals	186	98	32	36	18	.....	.....	1	1	....
	Males	95	49	15	20	9	.....	.....	1	1	....
	Females	91	49	17	16	9	.....	.....	.....	.....	....

Digitized by Google

Table II.—Continued.—Births by counties, parent nativity and sex, 1908.

Counties.	Sex.	Children born in 1908.	Nativity of parents of children born in 1908.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father—		Father unknown. Mother—		Both unknown.
							Native.	Foreign.	Native.	Foreign.	
Macomb	Totals	679	507	51	67	49	.....	.....	4	1	....
	Males	349	259	24	36	26	.....	.....	4	.....	....
	Females	330	248	27	31	23	.....	.....	.....	1	....
Manistee	Totals	682	324	179	126	47	.....	.....	6	.....	....
	Males	352	157	96	69	28	.....	.....	2	.....	....
	Females	330	167	83	57	19	.....	.....	4	.....	....
Marquette	Totals	1,333	350	693	195	85	.....	.....	7	3	....
	Males	675	178	342	101	49	.....	.....	3	2	....
	Females	658	172	351	94	36	.....	.....	4	1	....
Mason	Totals	452	280	75	49	45	1	.....	2	.....	....
	Males	237	149	41	25	20	1	.....	1	.....	....
	Females	215	131	34	24	25	.....	.....	1	.....	....
Mecosta	Totals	493	386	22	54	25	1	.....	5	.....	....
	Males	260	204	13	27	11	1	.....	4	.....	....
	Females	233	182	9	27	14	.....	.....	1	.....	....
Menominee	Totals	552	232	173	101	40	.....	1	3	1	1
	Males	285	134	82	46	20	.....	.....	1	1	1
	Females	267	98	91	55	20	.....	1	2	.....	....
Midland	Totals	382	276	26	47	27	.....	.....	4	.....	2
	Males	204	161	11	17	13	.....	.....	.....	.....	2
	Females	178	115	15	30	14	.....	.....	4	.....	....
Missaukee	Totals	312	178	49	52	31	.....	.....	2	.....	....
	Males	145	76	20	31	18	.....	.....	.....	.....	....
	Females	167	102	29	21	13	.....	.....	2	.....	....
Monroe	Totals	666	569	28	39	25	2	.....	3	.....	....
	Males	337	290	14	20	10	2	.....	1	.....	....
	Females	329	279	14	19	15	.....	.....	2	.....	....
Montcalm	Totals	810	647	51	66	33	2	.....	11	.....	....
	Males	399	317	29	29	19	.....	.....	5	.....	....
	Females	411	330	22	37	14	2	.....	6	.....	....
Montmorency	Totals	119	67	21	20	11	.....	.....	.....	.....	....
	Males	55	29	10	9	7	.....	.....	.....	.....	....
	Females	64	38	11	11	4	.....	.....	.....	.....	....
Muskegon	Totals	896	491	188	131	77	.....	.....	7	1	1
	Males	454	256	95	61	39	.....	.....	2	1	....
	Females	442	235	93	70	38	.....	.....	5	.....	1
Newaygo	Totals	457	369	30	34	21	.....	.....	3	.....	....
	Males	240	194	12	20	12	.....	.....	2	.....	....
	Females	217	175	18	14	9	.....	.....	1	.....	....
Oakland	Totals	861	632	71	96	55	1	.....	5	1	....
	Males	450	337	37	49	23	1	.....	2	1	....
	Females	411	295	34	47	32	.....	.....	3	.....	....
Oceana	Totals	418	314	36	49	19	.....	.....	.....	.....	....
	Males	198	160	11	22	5	.....	.....	.....	.....	....
	Females	220	154	25	27	14	.....	.....	.....	.....	....
Ogemaw	Totals	280	177	31	53	18	.....	.....	.....	1	....
	Males	155	98	16	34	7	.....	.....	.....	.....	....
	Females	125	79	15	19	11	.....	.....	.....	1	....
Ontonagon	Totals	291	82	164	30	15	.....	.....	.....	.....	....
	Males	143	45	74	15	9	.....	.....	.....	.....	....
	Females	148	37	90	15	6	.....	.....	.....	.....	....

Digitized by Google

Table II.—Concluded.—Births by counties, parent nativity and sex, 1908.

Counties.	Sex.	Children born in 1908.	Nativity of parents of children born in 1908.								
			Both native born.	Both foreign born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown. Father—		Father unknown. Mother—		Both unknown.
							Native.	Foreign.	Native.	Foreign.	
Osceola	Totals	492	344	51	66	29	.....	.....	2	.....	....
	Males	254	183	19	36	16	.....	.....	.....	.....	....
	Females	238	161	32	30	13	.....	.....	2	.....	....
Oscoda	Totals	54	42	3	6	2	.....	.....	1	.....	....
	Males	25	19	.....	4	2	.....	.....	.....	.....	....
	Females	29	23	3	2	.....	.....	.....	1	.....	....
Otsego	Totals	158	73	45	30	7	.....	.....	2	1	....
	Males	81	43	19	15	3	.....	.....	1	.....	...
	Females	77	30	26	15	4	.....	.....	1	1	....
Ottawa	Totals	1,179	733	202	145	92	.....	1	5	.....	1
	Males	592	366	101	74	48	.....	.....	2	.....	.
	Females	587	367	101	71	44	.....	1	3	.....	.. .
Presque Isle	Totals	354	204	46	69	29	2	4	.....	.....	....
	Males	190	117	19	38	13	.....	3	.....	.....	....
	Females	164	87	27	31	16	2	1	.....	.....	....
Roscommon	Totals	54	37	8	5	4	.....	.....	.....	.....	....
	Males	31	18	6	4	3	.....	.....	.....	.....	....
	Females	23	19	2	1	1	.....	.....	.....	.....	....
Saginaw	Totals	1,933	1,194	282	277	158	2	.....	14	2	4
	Males	991	607	145	151	80	1	.....	6	1	....
	Females	942	589	137	126	78	1	.....	8	1	4
St. Clair	Totals	1,217	706	163	190	148	1	.....	8	.....	1
	Males	641	374	78	101	86	1	.....	1	.....	....
	Females	576	332	85	89	62	.....	.....	7	.....	1
St. Joseph	Totals	461	417	8	21	14	1	.....	.....	.....	....
	Males	231	209	3	11	8	.....	.....	.....	.....	....
	Females	230	208	5	10	6	1	.....	.....	.....	....
Sanilac	Totals	958	483	148	229	94	.....	.....	4	.....	....
	Males	508	270	80	111	45	.....	.....	2	.....	....
	Females	450	213	68	118	49	.....	.....	2	.....	....
Schoolcraft	Totals	273	104	87	56	13	.....	.....	2	.....	1
	Males	147	58	46	25	15	.....	.....	2	.....	1
	Females	126	46	41	31	8	.....	.....	.....	.....	....
Shiawassee	Totals	714	557	41	73	37	1	.....	4	1	....
	Males	383	304	20	40	18	.....	.....	1	.....	....
	Females	331	253	21	33	19	1	.....	3	1	....
Tuscola	Totals	787	524	69	121	68	.....	.....	5	.....	....
	Males	419	278	39	65	34	.....	.....	3	.....	....
	Females	368	246	30	56	34	.....	.....	2	.....	....
Van Buren	Totals	730	631	35	30	31	.....	.....	3	.....	....
	Males	385	335	15	20	14	.....	.....	1	.....	....
	Females	345	296	20	10	17	.....	.....	2	.....	....
Washtenaw	Totals	805	580	60	68	51	.....	.....	37	7	2
	Males	423	306	27	40	28	.....	.....	18	3	1
	Females	382	274	33	28	23	.....	.....	19	4	1
Wayne	Toatls	11,491	4,651	4,052	1,447	1,008	1	.....	188	63	81
	Males	6,007	2,439	2,138	739	498	1	.....	109	32	51
	Females	5,484	2,212	1,914	708	510	.....	.....	79	31	30
Wexford	Totals	582	425	65	56	30	.....	.....	5	.....	1
	Males	299	220	32	31	12	.....	.....	3	.....	1
	Females	283	205	33	25	18	.....	.....	2	.....	....

Digitized by Google

TABLE III.—Stillbirths, twins and illegitimate births in Michigan, by counties, for the year 1908. (Stillbirths included.)

State and counties.	Number of stillbirths, 1908.	Number of twins born in 1908.*	Number of illegitimate children born in 1908.*
STATE	2,252	1,220	888
Alcona	3	.....	.....
Alger	3	6	1
Allegan	44	10	3
Alpena	7	4	3
Antrim	12	14	.....
Arenac	6	.....	1
Baraga	3	.....	2
Barry	17	8	.....
Bay	67	38	24
Benzie	21	12	2
Berrien	33	10	5
Branch	11	6	1
Calhoun	34	20	12
Cass	13	6	6
Charlevoix	15	12	4
Cheboygan	18	12	7
Chippewa	26	16	9
Clare	5	14	4
Clinton	21	20	4
Crawford	6	2	.....
Delta	34	16	6
Dickinson	21	22	4
Eaton	17	12	6
Emmet	15	10	5
Genesee	38	22	7
Gladwin	6	4	1
Gogebic	35	26	7
Grand Traverse	25	14	8
Gratiot	14	20	4
Hillsdale	23	18	.....
Houghton	83	58	16
Huron	25	30	9
Ingham	30	18	8
Ionia	20	6	3
Iosco	13	2	4
Iron	15	6	4
Isabella	21	24	4
Jackson	50	12	8
Kalamazoo	47	18	8
Kalkaska	13	2	1
Kent	111	60	72
Keweenaw	10	4	1
Lake	3	4	1
Lapeer	28	4	4
Leelanau	15	10	2
Lenawee	39	18	4
Livingston	16	10	2
Luce	2	.....	1
Mackinac	11	6	.....
Macomb	22	16	3
Manistee	24	16	6
Marquette	55	20	10
Mason	28	4	2
Mecosta	23	10	4
Menominee	9	16	4

Digitized by Google

Table III.—Concluded.—Twins and illegitimate births, by counties, year.

State and counties.	Number of stillbirths, 1908.	Number of twins born in 1908.*	Number of illegitimate children born in 1908.*
Midland	11	2	.....
Missaukee	13	6	1
Monroe	8	6	2
Montcalm	38	12	9
Montmorency	11	.....	.....
Muskegon	24	12	8
Newaygo	19	20	5
Oakland	42	20	7
Oceana	23	12	1
Ogemaw	13	8	2
Ontonagon	15	2	1
Osceola	17	14	3
Oscoda	3	.....	1
Otsego	11	.....	4
Ottawa	42	24	3
Presque Isle	8	6	5
Roscommon	1	.....	.....
Saginaw	72	26	22
St. Clair	42	4	3
St. Joseph	15	8	.....
Sanilac	28	22	8
Schoolcraft	6	6	2
Shiawassee	16	8	9
Tuscola	27	22	3
Van Buren	30	12	1
Washtenaw	28	20	43
Wayne	357	196	415
Wexford	27	14	8

*Stillbirths included.

Table IV.—Stillbirths, twins and illegitimate births in Michigan, by months and sex for the year, 1908.

Condition.	Sex.	Year, 1908.	Months of births, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Stillbirths	Totals	2,252	193	189	209	208	194	185	193	178	157	184	170	192
	Males	1,335	121	106	138	135	114	112	110	104	81	114	94	106
	Females	917	72	83	71	73	80	73	83	74	76	70	76	86
Twins*	Totals	1,230	82	110	132	92	134	106	128	102	78	92	80	94
	Males	624	37	49	78	45	66	60	68	54	42	43	38	44
	Females	606	45	61	54	47	68	46	60	48	36	49	42	50
Illegitimate*	Totals	888	62	81	98	94	75	97	73	78	59	49	56	66
	Males	476	25	42	52	49	37	51	47	52	26	28	29	38
	Females	412	37	39	46	45	38	46	26	26	33	21	27	28

*Stillbirths included.

Digitized by Google

TABLES

RELATING TO

DEATHS

AND

CAUSES OF DEATH

IN

MICHIGAN

DURING THE

YEAR 1908.

11

Digitized by Google

PRIMARY TABLES RELATING TO DEATHS AND CAUSES OF DEATHS IN MICHIGAN DURING THE YEAR 1908.

TABLE I.—Deaths in Michigan, by months, counties and sex, during the year 1908. (Stillbirths excluded.)

TABLE II.—Deaths in Michigan, by ages, counties and sex, during the year 1908. (Stillbirths excluded.)

TABLE III.—Causes of death in Michigan, by months, ages and sex, during the year 1908. (Stillbirths excluded.)

TABLE IV.—Causes of death in Michigan, by counties, during the year 1908. (Stillbirths excluded.)

NOTE.—Secondary tables containing death rates and other ratios, and comparative tables, displaying the mortality of Michigan for the year 1908 in connection with previous years, and other states and countries may be found on preceding pages of this Report, together with the descriptive text.

Digitized by Google

Table I.—Deaths in Michigan by months, counties and sex, during the year 1908. (Still-births excluded.)

State and counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
STATE.....	Totals.	36,761	3,162	3,336	3,462	3,254	2,972	2,572	2,710	3,113	3,375	3,323	2,823	2,659
	Males.	19,753	1,676	1,695	1,864	1,821	1,589	1,385	1,496	1,727	1,814	1,790	1,464	1,432
	Fem..	17,008	1,486	1,641	1,598	1,433	1,383	1,187	1,214	1,386	1,561	1,533	1,359	1,227
Alcona.....	Totals.	70	13	.....	6	4	1	2	2	9	12	10	8	3
	Males.	34	5	.....	3	2	1	.....	1	5	6	4	7	.....
	Fem..	36	8	.....	3	2	.....	2	1	4	6	6	1	3
Alger.....	Totals.	104	7	5	2	13	5	3	5	10	18	18	8	10
	Males.	70	4	4	2	7	4	3	3	5	12	13	7	6
	Fem..	34	3	1	.....	6	1	.....	2	5	6	5	1	4
Allegan.....	Totals.	582	63	46	59	58	38	44	45	45	40	59	44	41
	Males.	299	31	23	29	29	28	21	28	21	22	30	19	18
	Fem..	283	32	23	30	29	10	23	17	24	18	29	25	23
Alpena.....	Totals.	307	24	29	30	29	26	24	33	20	27	23	22	20
	Males.	160	13	12	14	17	17	9	22	15	13	12	5	11
	Fem..	147	11	17	16	12	9	15	11	5	14	11	17	9
Antrim.....	Totals.	221	22	18	18	13	16	19	16	23	24	28	12	12
	Males.	126	14	9	14	5	8	10	8	17	13	16	4	8
	Fem..	95	8	9	4	8	8	9	8	6	11	12	8	4
Arenac.....	Totals.	120	8	14	12	9	13	6	8	9	14	9	7	11
	Males.	64	5	6	6	5	9	3	3	5	8	5	3	6
	Fem..	56	3	8	6	4	4	3	5	4	6	4	4	5
Baraga.....	Totals.	74	5	10	7	7	2	4	4	5	17	8	.....	5
	Males.	42	3	3	4	6	2	2	2	2	12	3	.....	3
	Fem..	32	2	7	3	1	.....	2	2	3	5	5	.....	2
Barry.....	Totals.	260	18	25	29	19	15	26	18	23	26	22	17	22
	Males.	149	9	16	16	11	8	17	13	12	14	14	9	10
	Fem..	111	9	9	13	8	7	9	5	11	12	8	8	12
Bay.....	Totals.	811	72	66	88	73	80	48	56	72	59	73	58	66
	Males.	436	34	36	55	40	41	30	31	36	31	40	25	37
	Fem..	375	38	30	33	33	39	18	25	36	28	33	33	29
Benzie.....	Totals.	157	13	13	21	14	21	8	4	8	16	13	14	12
	Males.	85	8	4	12	8	8	5	2	6	11	6	9	6
	Fem..	72	5	9	9	6	13	3	2	2	5	7	5	6
Berrien.....	Totals.	743	44	69	52	77	69	55	66	68	72	63	47	61
	Males.	377	20	38	26	31	31	27	42	39	30	31	25	37
	Fem..	366	24	31	26	46	38	28	24	29	42	32	22	24
Branch.....	Totals.	395	30	41	39	32	35	29	31	34	30	31	29	34
	Males.	202	15	25	23	16	17	13	20	15	14	18	14	12
	Fem..	193	15	16	16	16	18	16	11	19	16	13	15	22
Calhoun.....	Totals.	749	64	69	84	64	42	49	57	58	61	68	68	65
	Males.	388	34	25	41	40	21	37	26	30	30	32	38	34
	Fem..	361	30	44	43	24	21	12	31	28	31	36	30	31
Cass.....	Totals.	293	36	20	19	27	19	27	16	24	29	23	28	25
	Males.	140	17	8	9	14	9	16	8	11	13	10	15	10
	Fem..	153	19	12	10	13	10	11	8	13	16	13	13	15
Charlevoix.....	Totals.	239	13	20	16	22	22	21	16	24	38	28	9	10
	Males.	131	7	8	9	18	10	13	9	12	20	15	5	5
	Fem..	108	6	12	7	4	12	8	7	12	18	13	4	5
Cheboygan.....	Totals.	228	15	23	20	23	30	10	16	15	24	16	19	17
	Males.	140	11	13	11	15	22	5	9	7	15	8	12	12
	Fem..	88	4	10	9	8	8	5	7	8	9	8	7	5
Chippewa.....	Totals.	284	18	36	21	26	22	15	18	32	35	25	19	17
	Males.	170	7	20	12	14	16	10	13	18	22	18	13	7
	Fem..	114	11	16	9	12	6	5	5	14	13	7	6	10

Digitized by Google

Table I.—Continued.—Deaths in Michigan, by months, counties and sex, 1908.

State and counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Clare	Totals.	132	8	12	12	8	10	9	4	11	13	23	14	8
	Males.	75	5	8	4	3	7	4	4	6	8	13	7	6
	Fem.	57	3	4	8	5	3	5	.....	5	5	10	7	2
Clinton	Totals.	300	32	27	35	31	28	15	18	19	25	15	18	27
	Males.	145	14	8	19	18	14	8	10	10	15	4	8	17
	Fem.	155	18	19	16	13	14	17	8	9	10	11	10	10
Crawford	Totals.	44	3	5	4	3	4	4	7	6	3	1	1	3
	Males.	22	2	2	3	3	.....	2	4	1	1	1	.....	3
	Fem.	22	1	3	1	.....	4	2	3	5	2	.....	1	.....
Delta	Totals.	441	39	59	56	37	33	19	26	32	45	47	24	24
	Males.	262	26	27	31	26	14	10	18	21	25	32	16	16
	Fem.	179	13	32	25	11	19	9	8	11	20	15	8	8
Dickinson	Totals.	258	23	15	22	22	14	25	17	22	32	27	16	23
	Males.	150	12	7	13	11	11	14	9	14	20	19	7	13
	Fem.	108	11	8	9	11	3	11	8	8	12	8	9	10
Eaton	Totals.	468	39	40	40	49	40	39	37	29	47	39	32	37
	Males.	216	21	20	18	21	20	16	15	13	22	24	12	14
	Fem.	252	18	20	22	28	20	23	22	16	25	15	20	23
Emmet	Totals.	260	25	20	22	20	16	23	18	27	23	24	26	16
	Males.	150	11	13	15	14	12	13	10	15	12	11	16	8
	Fem.	110	14	7	7	6	4	10	8	12	11	13	10	8
Genesee	Totals.	652	53	50	55	63	53	44	46	73	61	50	46	58
	Males.	366	33	26	32	35	28	19	24	46	38	30	23	32
	Fem.	286	20	24	23	28	25	25	22	27	23	20	23	26
Gladwin	Totals.	83	5	9	9	6	7	2	8	8	7	7	8	7
	Males.	44	1	6	5	6	3	1	5	5	3	3	2	4
	Fem.	39	4	3	4	.....	4	1	3	3	4	4	6	3
Gogebic	Totals.	290	28	19	23	22	14	22	19	36	19	33	23	32
	Males.	165	20	11	17	11	5	13	10	19	11	22	12	14
	Fem.	125	8	8	6	11	9	9	9	17	8	11	11	18
Gd. Traverse	Totals.	460	41	43	46	24	42	37	17	45	52	40	38	35
	Males.	239	21	21	17	13	25	19	8	27	26	20	23	19
	Fem.	221	20	22	29	11	17	18	9	18	26	20	15	16
Gratiot	Totals.	384	34	52	31	27	31	28	28	31	28	34	28	32
	Males.	198	18	15	16	14	16	21	18	17	16	15	16	16
	Fem.	186	16	37	15	13	15	7	10	14	12	19	12	16
Hillsdale	Totals.	407	33	39	38	33	34	35	21	37	28	33	41	35
	Males.	197	18	30	15	15	15	10	9	26	12	16	14	17
	Fem.	210	15	9	23	18	19	25	12	11	16	17	27	18
Houghton	Totals.	1,041	68	75	95	72	85	79	77	111	106	122	78	73
	Males.	606	31	42	53	44	48	45	48	70	69	75	38	43
	Fem.	435	37	33	42	28	37	34	29	41	37	47	40	30
Huron	Totals.	395	23	27	39	33	41	20	40	32	55	35	29	21
	Males.	216	15	18	21	18	23	11	16	19	24	21	19	11
	Fem.	179	8	9	18	15	18	9	24	13	31	14	10	10
Ingham	Totals.	595	54	45	60	54	62	38	39	52	48	46	65	32
	Males.	300	29	25	30	28	25	21	21	26	25	23	27	20
	Fem.	295	25	20	30	26	37	17	18	26	23	23	38	12
Ionia	Totals.	465	32	48	48	43	34	31	39	42	38	35	37	38
	Males.	251	19	23	21	28	20	20	23	17	20	16	21	23
	Fem.	214	13	25	27	15	14	11	16	25	18	19	16	15
Iosco	Totals.	122	8	12	10	5	6	7	11	8	18	19	10	8
	Males.	64	3	6	6	.....	2	3	8	4	11	11	5	5
	Fem.	58	5	6	4	5	4	4	3	4	7	8	5	3
Iron	Totals.	185	11	19	17	12	22	7	7	19	27	20	12	12
	Males.	112	8	9	11	9	12	4	3	12	16	12	7	9
	Fem.	73	3	10	6	3	10	3	4	7	11	8	5	3

Digitized by Google

Table I.—Continued.—Deaths in Michigan, by months, counties and sex, 1908.

Counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Isabella.....	Totals.	275	25	25	23	22	16	13	16	26	26	35	26	22
	Males.	147	14	12	16	12	12	3	8	16	9	16	17	12
	Fem..	128	11	13	7	10	4	10	8	10	17	19	9	10
Jackson.....	Totals.	754	73	69	82	62	56	47	48	67	62	69	65	54
	Males.	416	42	36	43	39	28	27	31	34	35	38	32	31
	Fem..	338	31	33	39	23	28	20	17	33	27	31	33	23
Kalamazoo....	Totals.	912	63	92	101	76	67	68	63	77	78	87	74	66
	Males.	467	29	46	52	39	31	38	31	39	46	38	41	37
	Fem..	445	34	46	49	37	36	30	32	38	32	49	33	29
Kalkaska.....	Totals.	131	8	15	5	11	10	14	6	12	16	13	10	11
	Males.	66	6	7	3	8	4	6	2	5	5	6	7	7
	Fem..	65	2	8	2	3	6	8	4	7	11	7	3	4
Kent.....	Totals.	2,086	181	223	176	173	170	155	174	173	177	190	162	132
	Males.	1,164	100	115	99	96	96	93	93	95	102	100	88	87
	Fem..	922	81	108	77	77	74	62	81	78	75	90	74	45
Keweenaw.....	Totals.	107	9	8	9	4	6	6	6	9	17	10	16	7
	Males.	61	7	6	5	2	3	3	4	3	7	7	10	4
	Fem..	46	2	2	4	2	3	3	2	6	10	3	6	3
Lake.....	Totals.	59	2	4	6	8	12	3	4	4	2	7	2	5
	Males.	30	1	2	2	6	6	1	2	2	1	5	.....	2
	Fem..	29	1	2	4	2	6	2	2	2	1	2	2	3
Lapeer.....	Totals.	364	25	29	38	39	26	19	20	35	33	30	36	34
	Males.	195	10	15	22	17	12	13	11	20	21	14	24	16
	Fem..	169	15	14	16	22	14	6	9	15	12	16	12	18
Leelanaw.....	Totals.	142	9	10	9	15	19	9	13	16	10	11	6	15
	Males.	86	5	3	6	10	11	6	7	11	6	9	5	7
	Fem..	56	4	7	3	5	8	3	6	5	4	2	1	8
Lenawee.....	Totals.	671	68	79	62	69	47	36	35	48	54	58	55	60
	Males.	362	38	41	35	45	21	19	21	24	27	29	25	37
	Fem..	309	30	38	27	24	26	17	14	24	27	29	30	23
Livingston.....	Totals.	262	27	31	34	14	21	19	17	17	19	22	21	20
	Males.	141	11	13	18	5	14	14	10	11	7	13	13	12
	Fem..	121	16	18	16	9	7	5	7	6	12	9	8	8
Luce.....	Totals.	91	3	9	5	13	11	6	7	10	6	6	9	6
	Males.	61	2	4	4	12	6	3	4	9	3	4	7	3
	Fem..	30	1	5	1	1	5	3	3	1	3	2	2	3
Mackinac.....	Totals.	114	11	7	6	14	9	9	12	11	15	5	9	6
	Males.	67	5	4	4	9	7	5	6	7	9	2	5	4
	Fem..	47	6	3	2	5	2	4	6	4	6	3	4	2
Macomb.....	Totals.	431	38	45	40	40	31	30	34	38	40	29	39	27
	Males.	252	19	23	25	23	17	22	20	20	25	17	27	14
	Fem..	179	19	22	15	17	14	8	14	18	15	12	12	13
Manistee.....	Totals.	341	28	35	33	29	26	33	22	33	32	30	23	17
	Males.	210	15	20	22	22	20	18	18	18	19	18	11	9
	Fem..	131	13	15	11	7	6	15	4	15	13	12	12	8
Marquette.....	Totals.	631	50	39	50	42	64	28	46	58	79	86	46	43
	Males.	345	26	21	29	27	38	14	26	37	38	39	27	23
	Fem..	286	24	18	21	15	26	14	20	21	41	47	19	20
Mason.....	Totals.	276	21	22	21	27	21	21	16	24	37	25	21	20
	Males.	144	10	11	13	17	10	9	10	16	20	10	8	10
	Fem..	132	11	11	8	10	11	12	6	8	17	15	13	10
Mecosta.....	Totals.	272	25	25	29	18	28	13	21	16	30	26	21	20
	Males.	140	14	11	15	9	14	10	10	6	15	13	12	11
	Fem..	132	11	14	14	9	14	3	11	10	15	13	9	9
Menominee....	Totals.	307	24	24	37	35	32	18	20	19	37	21	21	19
	Males.	180	14	15	20	21	19	10	11	14	24	11	9	12
	Fem..	127	10	9	17	14	13	8	9	5	13	10	12	7

Digitized by Google

Table I.—Continued.—Deaths in Michigan, by months, counties and sex, 1908.

Counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Midland	Totals.	160	11	14	15	14	12	5	14	14	27	20	6	8
	Males.	96	7	6	8	11	8	4	8	10	16	10	4	4
	Fem.	64	4	8	7	3	4	1	6	4	11	10	2	4
Missaukee	Totals.	122	11	8	7	13	18	6	11	10	10	14	8	6
	Males.	61	4	5	3	6	7	2	9	6	4	9	4	2
	Fem.	61	7	3	4	7	11	4	2	4	6	5	4	4
Monroe	Totals.	398	48	40	36	36	35	32	26	34	37	26	27	31
	Males.	228	27	23	23	20	14	20	18	19	15	16	16	17
	Fem.	170	21	17	13	16	11	12	8	15	22	10	11	14
Montcalm	Totals.	425	38	38	36	47	41	33	28	26	53	32	26	27
	Males.	222	20	20	22	24	16	16	14	15	34	18	10	13
	Fem.	203	18	18	14	23	25	17	14	11	19	14	16	14
Montmorency	Totals.	44	1	7	5	7	2	2	3	3	6	4	.....	4
	Males.	26	1	5	3	3	1	.....	2	2	3	3	.....	3
	Fem.	18	.....	2	2	4	1	2	1	1	3	1	.....	1
Muskegon	Totals.	501	47	42	41	46	58	27	47	35	40	39	35	44
	Males.	255	33	23	16	18	33	17	18	20	19	21	20	17
	Fem.	246	14	19	25	28	25	10	29	15	21	18	15	27
Newaygo	Totals.	244	20	17	25	26	30	9	19	25	18	20	20	15
	Males.	136	13	10	11	13	16	7	13	11	9	14	9	10
	Fem.	108	7	7	14	13	14	2	6	14	9	6	11	5
Oakland	Totals.	741	73	71	70	71	53	59	53	57	65	61	54	54
	Males.	359	29	26	35	39	32	30	30	25	30	34	23	26
	Fem.	382	44	45	35	32	21	23	23	32	35	27	31	28
Oceana	Totals.	243	13	24	16	25	19	18	16	20	30	20	21	21
	Males.	122	5	15	9	15	9	5	9	13	12	13	8	9
	Fem.	121	8	9	7	10	10	13	7	7	18	7	13	12
Ogemaw	Totals.	96	10	9	10	7	4	3	10	5	10	13	9	6
	Males.	57	3	5	7	3	3	1	6	3	7	9	6	4
	Fem.	39	7	4	3	4	1	2	4	2	3	4	3	2
Ontonagon	Totals.	110	10	13	6	9	12	10	3	15	11	7	2	12
	Males.	75	7	9	5	9	8	7	3	9	7	5	.....	6
	Fem.	35	3	4	1	.....	4	3	.....	6	4	2	2	6
Osceola	Totals.	194	14	12	24	15	18	8	13	18	26	22	16	8
	Males.	100	5	6	11	8	9	3	10	8	13	12	9	6
	Fem.	94	9	6	13	7	9	5	3	10	13	10	7	2
Oscoda	Totals.	20	1	3	2	4	2	1	2	.....	3	.....	.....	2
	Males.	11	1	1	2	1	1	.....	1	.....	2	.....	.....	2
	Fem.	9	.....	2	.....	3	1	1	1	.....	1	.....	.....	.....
Otsego	Totals.	84	9	11	7	5	5	8	8	5	4	11	9	2
	Males.	46	3	6	5	3	3	4	6	2	2	7	5	.....
	Fem.	38	6	5	2	2	2	4	2	3	2	4	4	2
Ottawa	Totals.	523	45	41	50	58	43	41	43	34	46	32	45	45
	Males.	275	22	26	25	27	20	17	28	15	30	15	23	27
	Fem.	248	23	15	25	31	23	24	15	19	16	17	22	18
Presque Isle	Totals.	162	15	9	8	9	7	13	11	10	23	39	11	7
	Males.	88	12	3	6	7	3	10	7	7	12	14	3	4
	Fem.	74	3	6	2	2	4	3	4	3	11	25	8	3
Roscommon	Totals.	24	1	3	2	2	1	.....	2	1	1	5	4	2
	Males.	14	1	2	1	2	1	.....	2	1	.....	3	1	.....
	Fem.	10	.....	1	1	.....	.....	.....	.....	.....	1	2	3	2
Saginaw	Totals.	1,106	113	78	112	97	86	78	102	78	90	10	84	84
	Males.	572	62	44	54	56	51	43	48	42	45	52	34	41
	Fem.	534	51	34	58	41	35	35	54	36	45	52	50	43
St. Clair	Totals.	746	66	74	73	76	58	58	51	55	62	58	60	55
	Males.	394	35	33	36	39	32	39	25	32	29	30	35	29
	Fem.	352	31	41	37	37	26	19	26	23	33	28	25	26

Digitized by Google

Table I.—Concluded.—Deaths in Michigan, by months, counties and sex, 1908.

Counties.	Sex.	Year, 1908.	Months, 1908.											
			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
St. Joseph.....	Totals.	316	28	23	30	24	23	34	17	22	31	26	31	27
	Males.	170	14	11	16	15	16	15	11	11	22	17	10	12
	Fem..	146	14	12	14	9	7	19	6	11	9	9	21	15
Sanilac..	Totals.	367	25	39	31	32	31	21	24	36	36	39	34	19
	Males.	197	13	12	17	16	17	7	16	29	22	15	21	12
	Fem..	170	12	27	14	16	14	14	8	7	14	24	13	7
Schoolcraft.....	Totals.	126	6	14	12	15	5	5	13	10	17	12	7	10
	Males.	74	4	10	7	8	2	2	9	5	11	7	3	6
	Fem..	52	2	4	5	7	3	3	4	5	6	5	4	4
Shiawassee.....	Totals.	449	48	42	51	39	37	28	25	40	28	39	41	31
	Males.	244	26	24	29	18	17	16	12	21	21	25	19	16
	Fem..	205	22	18	22	21	20	12	13	19	7	14	22	15
Tuscola.....	Totals.	427	38	32	45	40	33	30	29	24	36	45	37	28
	Males.	231	25	15	22	26	15	18	12	18	20	26	18	16
	Fem..	196	13	17	23	14	18	12	17	16	16	19	19	12
Van Buren.....	Totals.	405	51	38	50	27	29	24	20	23	38	44	29	32
	Males.	204	22	24	23	16	12	12	13	12	19	20	16	15
	Fem..	201	29	14	27	11	17	12	7	11	19	24	13	17
Washtenaw.....	Totals.	676	59	62	67	65	57	60	47	60	47	60	51	41
	Males.	364	31	29	35	33	27	34	27	35	25	41	27	20
	Fem..	312	28	33	32	32	30	26	20	25	22	19	24	21
Wayne.....	Totals.	6,925	623	631	651	635	538	507	582	605	567	576	522	348
	Males.	3,646	324	313	355	352	283	253	298	329	294	307	281	257
	Fem..	3,279	299	318	296	283	255	254	284	276	273	269	241	231
Wexford.....	Totals.	282	24	30	29	25	21	21	21	26	26	28	17	14
	Males.	161	15	17	12	19	12	14	13	16	12	15	8	8
	Fem..	121	9	13	17	6	9	7	8	10	14	13	9	6

Digitized by Google

Table II.—Deaths in Michigan, by ages, counties and

Counties.	Sex.	Total deaths at all ages, 1908.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
STATE	Totals	36,761	7,697	1,200	599	349	240
	Males	19,753	4,351	656	317	171	125
	Females	17,008	3,346	544	282	178	115
Alcona	Totals	70	20	.....	1	1	1
	Males	34	11	.....	1	.....	1
	Females	36	9	.....	.....	1	.....
Alger	Totals	104	47	9	2	2	.....
	Males	70	29	5	1	2	.....
	Females	34	18	4	1	.....	.....
Allegan	Totals	582	97	18	7	3	2
	Males	299	51	12	5	1	1
	Females	283	46	6	2	2	1
Alpena	Totals	307	79	9	4	6	2
	Males	160	47	6	3	3	2
	Females	147	32	3	1	3	.....
Antrim	Totals	221	48	13	6	4	3
	Males	126	24	7	5	2	2
	Females	95	24	6	1	2	1
Arenac	Totals	120	29	3	6	.....	2
	Males	64	19	2	3	.....	2
	Females	56	10	1	3	.....	.....
Baraga	Totals	74	26	4	1	.....	.....
	Males	42	15	3	.....	.....	.....
	Females	32	11	1	1	.....	.....
Barry	Totals	260	20	7	3	4	3
	Males	149	15	5	1	1	2
	Females	111	5	2	2	3	1
Bay	Totals	811	186	33	13	7	6
	Males	436	105	15	8	4	4
	Females	375	81	18	5	3	2
Benzie	Totals	157	53	7	3	1	3
	Males	85	28	3	1	.....	1
	Females	72	25	4	2	1	2
Berrien	Totals	743	130	17	11	3	2
	Males	377	72	9	6	.....	2
	Females	366	58	8	5	3	.....
Branch	Totals	395	39	5	3	.....	3
	Males	202	19	2	2	.....	2
	Females	193	20	3	1	.....	1
Calhoun	Totals	749	87	16	6	5	4
	Males	388	49	9	4	1	3
	Females	361	38	7	2	4	1
Cass	Totals	293	29	11	7	.....	1
	Males	140	15	4	2	.....	1
	Females	153	14	7	5	.....	.....
Charlevoix	Totals	239	59	23	9	.....	.....
	Males	131	36	17	7	.....	.....
	Females	108	23	6	2	.....	.....
Cheboygan	Totals	228	61	13	9	3	.....
	Males	140	35	7	4	1	.....
	Females	88	26	6	5	2	.....
Chippewa	Totals	284	94	9	7	3	2
	Males	170	56	5	4	2	2
	Females	114	38	4	3	1	.....

Digitized by Google

sex, during the year 1906. (Stillbirths excluded).

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.
10,084	753	607	1,038	1,366	1,239	1,227	1,184	1,196	1,389	1,590	1,826	2,148	2,406	2,616	2,610	3,440	41
5,620	365	309	545	711	609	583	582	641	767	877	1,012	1,185	1,310	1,374	1,467	1,762	34
4,464	388	298	493	655	630	644	602	555	622	713	814	963	1,096	1,242	1,143	1,678	7
23	5	1	3	3	.....	1	2	1	3	.....	3	5	2	4	5	9	..
13	2	....	.....	.....	.....	.....	1	1	2	.....	2	4	1	3	2	3	..
10	3	1	3	3	.....	1	1	.....	1	.....	1	1	1	1	3	6	..
60	6	3	3	1	2	6	2	4	5	3	1	4	2	.....	1	1	..
37	4	1	2	1	1	5	2	4	4	2	1	2	2	.....	1	1	..
23	2	2	1	.....	1	1	.....	.....	1	1	.....	2	.....	.....	.....	.....	..
127	9	12	17	13	15	14	14	11	15	24	28	41	53	54	52	82	1
70	4	3	11	7	7	5	10	6	5	9	12	23	27	30	20	49	1
57	5	9	6	6	8	9	4	5	10	15	16	18	26	24	32	33	..
100	14	10	18	15	13	6	13	9	6	11	17	15	18	12	11	19	..
61	5	6	9	8	6	3	4	4	6	7	6	9	5	5	6	10	..
39	9	4	9	7	7	3	9	5	.....	4	11	6	13	7	5	9	..
74	7	3	5	13	6	7	10	5	7	5	9	9	15	18	12	16	..
40	2	1	2	7	2	4	5	3	3	3	7	8	12	11	8	8	..
34	5	2	3	6	4	3	5	2	4	2	2	1	3	7	4	8	..
40	3	....	7	6	6	6	3	3	4	1	8	5	7	6	8	7	..
26	2	....	4	1	3	2	1	1	3	1	4	3	2	2	5	3	..
14	1	....	3	5	3	4	2	2	1	.....	4	2	5	3	3	4	..
31	2	....	5	5	2	4	1	3	2	1	.....	2	1	7	2	5	1
18	1	....	2	3	1	4	1	2	1	1	.....	.....	1	5	.....	1	1
13	1	....	3	2	1	.....	.....	1	1	.....	.....	2	.....	2	2	4	..
37	2	2	7	5	5	6	6	3	11	8	16	23	26	30	40	33	..
24	1	1	5	1	4	3	3	1	8	4	9	16	17	17	18	17	..
13	1	1	2	4	1	3	3	2	3	4	7	7	9	13	22	16	..
245	29	30	29	33	30	23	19	23	27	38	43	43	47	59	40	52	1
136	10	14	16	19	14	14	9	13	12	26	27	20	26	33	22	24	1
109	19	16	13	14	16	9	10	10	15	12	16	23	21	26	18	28	..
67	3	2	5	5	8	2	5	2	6	4	6	4	8	6	10	14	..
33	3	2	4	3	4	1	2	2	4	2	5	1	2	3	8	6	..
34	....	....	1	2	4	1	3	.....	2	2	1	3	6	3	2	8	..
163	9	9	11	21	22	20	21	18	24	38	44	55	63	63	78	82	2
89	1	6	3	10	11	10	9	7	15	16	26	30	34	35	38	36	1
74	8	3	8	11	11	10	12	11	9	22	18	25	29	28	40	46	1
50	4	4	6	11	5	5	5	15	14	21	33	33	34	48	38	69	..
25	2	2	3	7	1	1	3	3	5	12	18	17	20	27	21	35	..
25	2	2	3	4	4	4	2	12	9	9	15	16	14	21	17	34	..
118	7	12	19	30	16	16	24	22	39	41	44	53	61	71	72	103	1
66	3	5	10	15	9	9	11	15	21	23	20	26	33	30	42	49	1
52	4	7	9	15	7	7	13	7	18	18	24	27	28	41	30	54	..
48	9	5	4	8	7	9	7	4	14	16	16	26	24	31	34	31	..
22	4	5	2	5	2	3	2	2	5	8	8	5	13	13	19	22	..
26	5	...	2	3	5	6	5	2	9	8	8	21	11	18	15	9	..
91	6	3	8	8	7	9	11	7	4	6	7	15	12	12	21	12	..
60	1	....	6	3	3	3	5	4	2	4	4	9	4	5	13	5	..
31	5	3	2	5	4	6	6	3	2	2	3	6	8	7	8	7	..
86	6	3	4	6	10	4	9	5	4	11	12	12	13	13	10	19	1
47	5	2	3	2	2	2	6	5	3	8	8	7	11	8	6	14	1
39	1	1	1	4	8	2	3	.....	1	3	4	5	2	5	4	5	..
115	6	11	15	12	12	16	5	13	12	7	13	8	13	7	11	7	1
69	2	5	12	7	7	9	3	9	9	5	9	3	5	3	7	5	1
46	4	6	3	5	5	7	2	4	3	2	4	5	8	4	4	2	..

Digitized by Google

Table II.—Continued.—Deaths in Michigan by ages.

Counties.	Sex.	Total deaths at all ages, 1908.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Clare	Totals	132	33	2	1	3	.....
	Males	75	19	.....	1	.....	.....
	Females	57	14	2	.....	3	.....
Clinton	Totals	300	31	6	4	4	2
	Males	145	18	4	.....	2	1
	Females	155	13	2	4	2	1
Crawford	Totals	44	16	2	1	.....	2
	Males	22	9	.....	.....	.....	2
	Females	22	7	2	1	.....	.....
Delta	Totals	441	152	26	19	6	11
	Males	262	89	15	14	5	6
	Females	179	63	11	5	1	5
Dickinson	Totals	258	92	17	9	3	3
	Males	150	57	11	4	2	2
	Females	108	35	6	5	1	1
Eaton	Totals	468	49	8	8	.....	.....
	Males	216	29	3	7	.....	.....
	Females	252	20	5	1	.....	.....
Emmet	Totals	260	74	7	2	6	1
	Males	150	44	1	.....	4	1
	Females	110	30	6	2	2	.....
Genesee	Totals	652	93	20	4	5	2
	Males	366	59	14	3	1	2
	Females	286	34	6	1	4	.....
Gladwin	Totals	83	27	1	3	.....	1
	Males	44	14	1	2	.....	1
	Females	39	13	.....	1	.....	.....
Gogebic	Totals	290	107	18	8	11	3
	Males	165	53	13	3	5	1
	Females	125	54	5	5	6	2
Grand Traverse	Totals	460	69	10	9	10	2
	Males	239	36	7	2	5	.....
	Females	221	33	3	7	5	2
Gratiot	Totals	384	66	9	9	9	2
	Males	198	35	4	5	4	2
	Females	186	31	5	4	5	.....
Hillsdale	Totals	407	50	3	2	5	.....
	Males	197	27	1	1	3	.....
	Females	210	23	2	1	2	.....
Houghton	Totals	1,041	354	53	28	10	12
	Males	606	196	31	16	6	5
	Females	435	158	22	12	4	7
Huron	Totals	395	92	31	12	3	4
	Males	216	62	19	4	1	3
	Females	179	30	12	8	2	1
Ingham	Totals	595	96	13	3	5	4
	Males	300	46	9	2	3	2
	Females	295	50	4	1	2	2
Ionia	Totals	465	49	8	6	2	1
	Males	251	26	6	2	1	.....
	Females	214	23	2	4	1	1
Iosco	Totals	122	30	11	1	2	1
	Males	64	15	8	1	1	.....
	Females	58	15	3	.....	1	1

Digitized by Google

counties and sex, during the year 1908. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown
39	2	2	6	4	4	4	6	3	2	10	11	10	10	3	10	6	..
20	1	1	5	2	1	1	5	1	1	7	8	5	6	1	6	4	..
19	1	1	1	2	3	3	1	2	1	3	3	5	4	2	4	2	..
47	5	6	5	5	1	7	8	8	7	17	19	22	23	32	35	47	1
25	3	3	4	1	.....	1	5	3	4	4	8	13	9	20	17	24	1
22	2	3	1	4	1	6	3	5	3	13	11	9	14	17	18	23	..
21	1	1	.....	2	1	2	.....	.....	1	.....	4	3	1	5	1	1	..
11	1	.....	.....	1	.....	.....	.....	.....	1	.....	3	1	.....	3	1	.....	..
10	....	1	.....	1	1	2	.....	.....	.....	.....	1	2	1	2	.....	1	..
214	12	8	13	19	21	11	16	11	11	14	15	15	13	14	15	17	2
129	6	3	6	10	12	10	12	7	7	8	11	7	9	8	6	9	2
85	6	5	7	9	9	1	4	4	4	6	4	8	4	6	9	8	..
124	7	4	13	8	6	14	6	11	11	9	7	11	7	5	5	10	..
76	2	3	5	5	3	7	3	6	9	4	3	9	4	4	3	4	..
48	5	1	8	3	3	7	3	5	2	5	4	2	3	1	2	6	..
65	5	5	5	11	18	16	8	19	18	22	30	37	35	53	52	69	..
39	1	1	2	7	5	5	3	7	6	9	11	18	19	23	25	35	..
26	4	4	3	4	13	11	5	12	12	13	19	19	16	30	27	34	..
90	6	8	11	10	6	5	6	10	7	11	11	24	13	14	16	12	..
50	1	3	7	7	3	4	4	6	5	6	3	17	7	6	13	8	..
40	5	5	4	3	3	1	2	4	2	5	8	7	6	8	3	4	..
124	5	8	14	21	23	18	17	17	26	34	32	52	50	54	64	92	1
79	2	3	9	9	10	5	10	12	17	21	16	33	33	24	33	49	1
45	3	5	5	12	13	13	7	5	9	13	16	19	17	30	31	43	..
32	5	2	2	2	3	.....	2	1	2	4	9	4	5	1	5	4	..
18	2	1	1	1	2	.....	1	1	1	3	3	3	2	1	3	1	..
14	3	1	1	1	1	.....	1	.....	1	1	6	1	3	.....	2	3	..
147	7	2	10	20	19	11	9	10	13	12	5	5	5	4	3	6	2
75	2	1	4	14	15	4	7	5	10	9	3	3	3	3	2	3	2
72	5	1	6	6	4	7	2	5	3	3	2	2	2	1	1	3	..
100	3	5	13	16	14	14	17	30	25	21	25	35	38	35	33	36	..
50	1	4	4	5	5	7	8	15	8	15	15	16	22	21	22	21	..
50	2	1	9	11	9	7	9	15	17	6	10	19	16	14	11	15	..
95	5	8	10	16	8	5	5	11	11	17	23	21	34	42	33	39	1
50	3	1	5	8	4	3	2	5	3	9	10	10	19	23	18	24	1
45	2	7	5	8	4	2	3	6	8	8	13	11	15	19	15	15	..
60	5	1	12	11	13	8	9	10	19	21	23	28	36	37	50	62	2
32	4	1	6	2	4	4	7	4	9	9	10	9	14	20	32	29	1
28	1	....	6	9	9	4	2	6	10	12	13	19	22	17	18	33	1
457	40	22	41	58	46	46	37	36	35	30	31	32	39	32	26	32	1
254	17	7	27	46	30	34	22	25	15	17	21	21	24	18	13	15	..
203	23	15	14	12	16	12	15	11	20	13	10	11	15	14	13	17	1
142	12	8	10	16	8	9	11	8	8	15	17	7	23	30	25	46	..
89	5	3	3	8	3	3	5	5	2	6	6	4	16	14	15	29	..
53	7	5	7	8	5	6	6	3	6	9	11	3	7	16	10	17	..
121	11	4	14	30	16	18	23	21	18	31	22	34	53	57	60	61	1
62	5	2	9	13	7	12	4	9	9	13	13	16	28	36	31	30	1
59	6	2	5	17	9	6	19	12	9	18	9	18	25	21	29	31	..
66	7	4	8	11	19	17	10	15	14	18	29	23	46	49	49	79	1
35	3	3	6	4	10	9	2	7	6	12	19	14	26	19	28	48	..
31	4	1	2	7	9	8	8	8	8	6	10	9	20	30	21	31	1
45	....	3	5	7	3	2	3	9	1	5	5	6	5	9	8	6	..
25	....	3	3	4	1	1	1	4	1	2	1	3	3	6	4	2	..
20	....	....	2	3	2	1	2	5	.....	3	4	3	2	3	4	4	..

Digitized by Google

Table II.—Continued.—Deaths in Michigan by ages,

Counties.	Sex.	Total deaths at all ages, 1908.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Iron	Totals	185	60	14	6	5	2
	Males	112	35	9	4	3	1
	Females	73	25	5	2	2	1
Isabella	Totals	275	50	10	5	5	2
	Males	147	30	6	4	2	1
	Females	128	20	4	1	3	1
Jackson	Totals	754	104	8	4	1	1
	Males	416	63	4	4	.....	.....
	Females	338	41	4	.....	1	1
Kalamazoo	Totals	912	144	19	8	4	.....
	Males	467	79	10	7	2	.....
	Females	445	65	9	1	2	.....
Kalkaska	Totals	131	36	12	4	1	.....
	Males	66	21	2	3	1	.....
	Females	65	15	10	1	.....	.....
Kent	Totals	2,086	366	60	17	12	14
	Males	1,164	200	32	6	5	7
	Females	922	166	28	11	7	7
Keweenaw	Totals	107	45	12	6	2	1
	Males	61	28	4	4	2	.....
	Females	46	17	8	2	.....	1
Lake	Totals	59	7	1	1	1	1
	Males	30	7	1	1	.....	.....
	Females	29	.....	.....	.....	1	1
Lapeer	Totals	364	46	4	4	3	2
	Males	195	22	3	3	.....	1
	Females	169	24	1	1	3	1
Leelanau	Totals	142	36	5	4	2	2
	Males	86	25	3	3	.....	.....
	Females	56	11	2	1	2	2
Lenawee	Totals	671	69	5	5	1	5
	Males	362	43	.....	4	1	3
	Females	309	26	5	1	.....	2
Livingston	Totals	262	24	.....	7	3	.....
	Males	141	15	.....	4	1	.....
	Females	121	9	.....	3	2	.....
Luce	Totals	91	10	1	1	.....	1
	Males	61	5	1	1	.....	1
	Females	30	5	.....	.....	.....	.....
Mackinac	Totals	114	31	6	.....	1	3
	Males	67	15	4	.....	.....	1
	Females	47	16	2	.....	1	2
Macomb	Totals	431	64	7	6	2	1
	Males	252	44	5	2	1	1
	Females	179	20	2	4	1	.....
Manistee	Totals	341	81	17	3	.....	2
	Males	210	46	13	.....	.....	.....
	Females	131	35	4	3	.....	2
Marquette	Totals	631	169	42	22	11	7
	Males	345	93	22	8	5	3
	Females	286	76	20	14	6	4
Mason	Totals	276	67	12	6	.....	6
	Males	144	33	9	2	.....	4
	Females	132	34	3	4	.....	2

Digitized by Google

counties and sex, during the year 1908. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown
87	5	4	6	11	11	5	9	7	7	9	5	7	3	3	3	3	..
52	1	2	3	7	10	1	8	4	4	7	4	3	1	2	3	.....	..
35	4	2	3	4	1	4	1	3	3	2	1	4	2	1	.....	3	..
72	7	8	8	8	4	5	6	7	14	11	23	11	12	23	27	28	1
43	3	5	4	3	1	1	2	4	7	5	11	8	4	14	15	16	1
29	4	3	4	5	3	4	4	3	7	6	12	3	8	9	12	12	..
118	11	10	22	22	30	29	34	31	34	38	48	57	53	67	62	87	1
71	6	6	12	15	13	19	16	17	21	20	29	28	29	40	32	41	1
47	5	4	10	7	17	10	18	14	13	18	19	29	24	27	30	46	..
175	10	14	17	28	29	25	34	37	44	51	60	61	65	80	72	109	1
98	6	10	7	12	9	12	14	19	23	30	32	39	31	37	37	51	..
77	4	4	10	16	20	13	20	18	21	21	28	22	34	43	35	58	1
53	3	2	6	3	5	3	6	2	4	4	7	11	9	3	3	7	..
27	....	1	3	2	3	1	2	1	1	2	4	7	6	2	2	2	..
26	3	1	3	1	2	2	4	1	3	2	3	4	3	1	1	5	..
469	41	29	74	80	88	88	61	77	95	76	106	140	148	167	149	197	1
250	20	10	39	49	43	40	30	43	55	41	61	74	89	102	94	123	1
219	21	19	35	31	45	48	31	34	40	35	45	66	59	65	55	74	..
66	5	....	5	5	6	3	3	3	2	2	1	2	.....	2	1	1	..
38	4	....	.....	3	5	2	1	2	2	1	1	1	.....	.....	.....	1	..
28	1	....	5	2	1	1	2	1	.....	1	.....	1	.....	2	1	.....	..
11	....	....	4	2	1	.....	2	4	1	3	4	5	10	3	3	6	..
9	....	....	3	1	.....	.....	.....	2	1	2	1	1	4	2	2	2	..
2	....	....	1	1	1	.....	2	2	.....	1	3	4	6	1	1	4	..
59	9	9	10	22	15	16	9	7	9	16	20	20	27	30	42	43	1
29	4	8	4	14	9	9	4	2	2	9	11	15	19	16	19	20	1
30	5	1	6	8	6	7	5	5	7	7	9	5	8	14	23	23	..
49	1	5	6	8	10	6	7	3	1	2	2	9	9	7	7	9	1
31	1	1	5	5	4	2	5	.....	1	2	2	7	4	4	7	4	1
18	....	4	1	3	6	4	2	3	.....	.....	.....	2	5	3	.....	5	..
85	12	6	16	21	15	25	20	18	25	26	34	47	57	79	75	110	..
51	9	4	8	8	3	14	14	9	10	15	15	27	31	44	41	59	..
34	3	2	8	13	12	11	6	9	15	11	19	20	26	35	34	51	..
34	4	4	6	8	9	10	6	4	6	15	20	16	25	32	30	32	1
20	3	3	1	2	4	4	2	2	1	7	12	6	9	25	16	23	1
14	1	1	5	6	5	6	4	2	5	8	8	10	16	7	14	9	..
13	2	2	2	.....	5	8	7	6	9	9	11	5	4	1	1	4	2
8	1	1	2	.....	2	5	5	6	6	8	6	4	3	1	1	1	1
5	1	1	.....	.....	3	3	2	.....	3	1	5	1	1	.....	.....	3	1
41	4	3	4	6	3	5	2	4	3	2	4	11	6	3	3	9	1
20	2	2	1	4	.....	5	1	2	2	1	3	8	4	3	2	6	1
21	2	1	3	2	3	.....	1	2	1	1	1	3	2	.....	1	3	..
80	3	4	9	10	13	18	12	16	19	20	13	24	41	31	50	68	..
53	3	2	5	5	7	7	8	10	12	13	6	12	26	20	27	36	..
27	....	2	4	5	6	11	4	6	7	7	7	12	15	11	23	32	..
103	3	3	9	13	15	9	10	10	18	13	14	24	26	21	14	30	1
59	....	4	3	10	8	6	8	7	11	7	11	17	16	11	12	19	1
44	3	4	6	3	7	3	2	3	7	6	3	7	10	10	2	11	..
251	26	25	19	24	28	18	25	29	23	17	30	24	29	16	18	30	..
131	15	14	12	13	12	9	17	19	13	13	19	15	13	9	10	11	..
120	11	11	7	11	16	9	8	10	9	4	11	9	16	7	8	19	..
91	8	2	8	12	5	6	10	7	9	12	11	14	24	20	26	11	..
48	4	....	4	4	2	3	3	4	6	4	8	8	11	8	15	7	..
43	4	2	4	8	3	3	7	3	3	8	3	6	8	12	11	4	..

Digitized by Google

Table II.—Continued.—Deaths in Michigan by ages.

Counties.	Sex.	Total deaths at all ages, 1908.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Mecosta	Totals	272	45	11	6	3	.....
	Males	140	19	9	3	1	.....
	Females	132	26	2	3	2	.....
Menominee	Totals	307	99	18	9	6	7
	Males	180	68	9	4	2	4
	Females	127	31	9	5	4	3
Midland	Totals	160	37	8	1	1	1
	Males	96	20	4	1	1	.....
	Females	64	17	4	.....	.....	1
Missaukee	Totals	122	44	8	7	3	2
	Males	61	25	1	2	1	2
	Females	61	19	7	5	2	.....
Monroe	Totals	398	84	10	7	1	1
	Males	228	50	4	3	.....	1
	Females	170	34	6	4	1	.....
Montcalm	Totals	425	69	7	5	3	2
	Males	222	36	2	2	1	.....
	Females	203	33	5	3	2	2
Montmorency	Totals	44	13	5	1	1	.....
	Males	26	9	2	1	1	.....
	Females	18	4	3	.....	.....	.....
Muskegon	Totals	501	88	17	10	6	.....
	Males	255	43	6	6	3	.....
	Females	246	45	11	4	3	.....
Newaygo	Totals	244	41	6	3	2	.....
	Males	136	19	3	1	2	.....
	Females	108	22	3	2	.....	.....
Oakland	Totals	741	79	18	5	3	1
	Males	359	45	6	1	1	.....
	Females	283	34	12	4	2	1
Oceana	Totals	143	48	6	3	4	3
	Males	122	24	3	1	4	3
	Females	121	24	3	2	.....	.....
Ogemaw	Totals	96	19	5	4	1	1
	Males	57	16	2	2	1	.....
	Females	39	3	3	2	.....	1
Ontonagon	Totals	110	25	13	2	1	3
	Males	75	14	10	1	1	.....
	Females	35	11	3	1	.....	3
Osceola	Totals	194	41	12	5	.....	1
	Males	100	21	5	2	.....	.....
	Females	94	20	7	3	.....	1
Oscoda	Totals	20	5	.....	.....	1	.....
	Males	11	3	.....	.....	1	.....
	Females	9	2	.....	.....	.....	.....
Otsego	Totals	84	27	3	4	.....	1
	Males	46	14	2	3	.....	.....
	Females	38	13	1	1	.....	1
Ottawa	Totals	523	81	17	6	6	2
	Males	275	43	12	2	2	1
	Females	248	38	5	4	4	1
Presque Isle	Totals	162	47	8	5	2	5
	Males	88	24	6	3	1	4
	Females	74	23	2	2	1	1

Digitized by Google

counties and sex, during the year 1908. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown
65	4	5	10	11	8	10	13	5	7	8	19	21	27	22	20	17	..
32	2	2	5	5	5	4	3	.....	5	4	11	12	15	11	13	11	..
33	2	3	5	6	3	6	10	5	2	4	8	9	12	11	7	6	..
139	7	5	10	10	7	11	9	10	12	11	12	11	9	12	19	12	1
87	1	3	9	2	2	4	4	4	9	7	9	5	6	8	14	5	1
52	6	2	1	8	5	7	5	6	3	4	3	6	3	4	5	7	..
48	4	3	5	6	6	3	6	8	3	7	9	13	8	10	11	10	..
26	2	3	4	2	5	3	3	5	1	6	7	4	6	5	10	4	..
22	2	....	1	4	1	.....	3	3	2	1	2	9	2	5	1	6	..
64	1	3	7	4	4	.....	5	2	3	3	4	1	7	7	4	3	..
31	1	2	1	1	1	.....	1	.....	1	1	2	1	5	5	4	3	..
33	....	1	6	3	3	.....	4	2	2	2	2	.....	1	2	.....	.....	..
103	7	5	10	11	11	10	10	6	9	13	18	17	38	33	39	58	..
58	3	3	9	6	4	8	5	4	6	9	10	9	23	19	26	16	..
45	4	2	1	5	7	2	5	2	3	4	8	8	15	14	13	32	..
86	8	6	13	18	10	16	14	8	12	19	21	46	26	43	35	44	..
41	4	5	5	9	4	8	5	2	4	14	13	22	14	26	21	25	..
45	4	1	8	9	6	8	9	6	8	5	8	24	12	17	14	19	..
20	1	2	2	1	.....	3	3	1	1	3	1	1	2	2	.....	1	..
13	....	1	2	1	.....	1	2	1	.....	2	1	1	1	.....	.....	.....	..
7	1	1	.....	.....	.....	2	1	.....	1	1	.....	.....	1	2	.....	1	..
121	7	14	16	19	16	13	10	13	20	25	26	42	35	50	40	33	1
58	5	4	11	7	8	7	5	4	11	14	14	21	16	30	23	16	1
63	2	10	5	12	8	6	5	9	9	11	12	21	19	20	17	17	..
52	9	4	6	6	9	8	11	4	5	7	17	16	24	21	22	21	2
25	5	3	3	3	5	3	5	2	1	7	8	9	12	14	15	15	1
27	4	1	3	3	4	5	6	2	4	.....	9	7	12	7	7	6	1
106	12	15	13	17	21	23	16	22	38	47	45	44	72	71	79	100	..
53	7	9	7	6	8	8	7	10	19	28	20	23	38	37	32	47	..
53	5	6	6	11	13	15	9	12	19	19	25	21	34	34	47	53	..
64	8	7	7	7	7	9	3	7	9	13	13	8	19	21	19	22	..
35	3	3	4	2	4	4	2	4	4	6	8	3	11	8	8	13	..
29	5	4	3	5	3	5	1	3	5	7	5	5	8	13	11	9	..
30	1	4	3	3	4	2	5	2	3	7	6	6	5	5	4	6	..
21	1	3	2	2	3	1	3	2	2	4	2	2	4	1	1	3	..
9	....	1	1	1	1	1	2	.....	1	3	4	4	1	4	3	3	..
44	9	4	2	3	10	2	5	4	5	7	2	2	2	2	4	2	1
26	3	3	2	3	9	2	4	3	3	5	2	2	2	1	2	2	1
18	6	1	.....	.....	1	.....	1	1	2	2	.....	.....	.....	1	2	.....	..
59	1	5	6	7	9	10	5	9	12	8	12	11	8	14	9	9	..
28	....	1	5	1	4	7	4	3	7	4	8	8	1	7	5	7	..
31	1	4	1	6	5	3	1	6	5	4	4	3	7	7	4	2	..
6	....	....	3	1	.....	.....	2	.....	.....	.....	2	1	2	2	.....	1	..
4	....	....	1	1	.....	.....	1	.....	.....	.....	.....	1	1	1	.....	1	..
2	....	....	2	.....	.....	.....	1	.....	.....	.....	2	.....	1	1	.....	.....	..
35	3	2	3	2	.....	3	2	4	1	4	4	5	3	2	6	5	..
19	1	1	1	1	.....	.....	1	3	1	3	2	4	3	2	3	1	..
16	2	1	2	1	.....	3	1	1	.....	1	2	1	.....	.....	3	4	..
111	13	8	16	20	10	22	25	17	22	17	26	27	30	49	46	63	..
60	6	3	9	8	7	8	10	13	14	11	16	11	13	22	30	34	..
51	7	5	7	12	3	14	15	4	8	6	10	16	17	27	16	29	..
67	10	8	6	4	4	10	6	3	2	7	5	4	7	4	3	12	..
38	5	4	3	3	1	4	2	2	2	5	2	3	4	1	3	6	..
29	5	4	3	1	3	6	4	1	.....	2	3	1	3	3	.....	6	..

Digitized by Google

Table II.—Concluded.—Deaths in Michigan by ages.

Counties.	Sex.	Total deaths at all ages, 1908.	Ages in years.				
			Under 1 year.	1.	2.	3.	4.
Roscommon	Totals	24	6	2	.....	.....	.....
	Males	14	2	.....	.....	.....	.....
	Females	10	4	2	.....	.....	.....
Saginaw	Totals	1,106	246	33	8	10	5
	Males	572	128	20	5	9	4
	Females	534	118	13	3	1	1
St. Clair	Totals	746	126	14	7	10	.....
	Males	394	76	6	1	2	.....
	Females	352	50	8	6	8	.....
St. Joseph	Totals	316	28	6	6	3	1
	Males	170	20	2	3	2	1
	Females	146	8	4	3	1	.....
Sanilac	Totals	367	68	9	5	1	1
	Males	197	37	4	1	1	.....
	Females	170	31	5	4	.....	1
Schoolcraft	Totals	126	38	10	2	2	2
	Males	74	22	5	2	1	1
	Females	52	16	5	.....	1	1
Shiawassee	Totals	449	66	4	8	3	3
	Males	244	32	2	6	2	1
	Females	205	34	2	2	1	2
Tuscola	Totals	427	71	15	11	9	4
	Males	231	43	7	4	3	3
	Females	196	28	8	7	6	1
Van Buren	Totals	405	49	12	6	2	.....
	Males	204	26	5	5	1	.....
	Females	201	23	7	1	1	.....
Washtenaw	Totals	676	63	5	5	2	5
	Males	364	39	4	1	.....	3
	Females	312	24	1	4	2	2
Wayne	Totals	6,925	1,981	231	119	75	52
	Males	3,646	1,126	125	65	41	20
	Females	3,279	855	106	54	34	32
Wexford	Totals	282	70	10	3	8	2
	Males	161	43	4	2	3	1
	Females	121	27	6	1	5	1

Digitized by Google

counties and sex, during the year 1903. (Stillbirths excluded.)

Ages in five-year periods.

Under 5 years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown
8	....	....	1	1	1	1	.....	3	.....	.....	1	1	.....	1	3	3	..
2	....	....	.....	1	.....	1	.....	3	.....	.....	1	1	.....	1	2	2	..
6	....	....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	..
302	28	17	42	38	33	42	37	25	52	43	56	73	70	82	61	105	..
166	13	9	23	20	18	14	15	12	34	19	28	43	46	34	29	49	..
136	15	8	19	18	15	28	22	13	18	24	28	30	24	48	32	56	..
157	9	9	16	24	22	20	34	23	23	40	33	64	56	53	47	116	..
85	6	3	7	10	8	8	17	12	17	23	17	36	24	30	28	63	..
72	3	6	9	14	14	12	17	11	6	17	16	28	32	23	19	53	..
44	5	4	2	11	5	7	8	10	7	10	19	30	32	30	30	61	1
28	2	2	1	6	1	3	2	4	4	6	13	19	15	15	20	28	1
16	3	2	1	5	4	4	6	6	3	4	6	11	17	15	10	33	..
84	6	5	7	10	5	9	11	10	9	14	13	31	27	30	56	40	..
43	3	2	5	6	1	2	5	5	5	7	9	18	12	14	36	24	..
41	3	3	2	4	4	7	6	5	4	7	4	13	15	16	20	16	..
54	7	....	2	8	8	2	6	3	1	2	5	4	5	8	6	5	..
31	3	....	1	5	4	1	4	1	1	2	3	3	3	4	5	3	..
23	4	....	1	3	4	1	2	2	.....	.....	2	1	2	4	1	2	..
84	6	3	9	8	14	17	15	9	14	31	29	26	34	51	38	61	..
43	2	1	5	1	10	5	8	3	10	14	21	20	20	25	26	30	..
41	4	2	4	7	4	12	7	6	4	17	8	6	14	26	12	31	..
110	4	2	15	23	8	16	7	11	11	14	17	19	30	40	42	58	..
60	3	1	5	11	4	7	4	8	7	8	8	10	15	23	22	35	..
50	1	1	10	12	4	9	3	3	4	6	9	9	15	17	20	23	..
69	3	5	12	7	9	11	12	8	14	17	23	29	41	43	44	58	..
37	2	2	8	4	3	4	8	5	4	6	10	20	22	23	25	21	..
32	1	3	4	3	6	7	4	3	10	11	13	9	19	20	19	37	..
80	11	9	15	27	16	27	26	29	28	43	49	43	59	51	64	97	2
47	5	5	9	17	11	12	9	21	12	28	28	23	36	24	29	46	2
33	6	4	6	10	5	15	17	8	16	15	21	20	23	27	35	51	..
2,458	142	100	178	295	286	271	257	278	303	313	298	325	337	335	322	426	1
1,377	80	57	74	156	147	122	120	145	173	161	165	171	175	155	183	184	1
1,081	62	43	104	139	139	149	137	133	130	152	133	154	162	180	139	242	..
93	8	7	12	19	9	9	8	12	15	5	10	17	8	12	16	21	1
53	4	5	8	8	5	4	5	3	10	1	8	15	2	7	9	13	1
40	4	2	4	11	4	5	3	9	5	4	2	2	6	5	7	8	..

Digitized by Google

Table III.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1908.	Sex.	Total deaths, 1908.	Months of deaths, 1908. Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
	ALL CAUSES	Totals.	36,761	3,162	3,336	3,462	3,254	2,972	2,572	2,710	3,113	3,375	3,323	2,823	2,659
		Males.	19,753	1,676	1,695	1,864	1,821	1,589	1,385	1,496	1,727	1,814	1,790	1,464	1,432
		Fem.	17,008	1,486	1,641	1,598	1,433	1,383	1,187	1,214	1,386	1,561	1,533	1,359	1,227
1	Typhoid fever	Totals.	684	32	40	38	36	36	27	42	65	92	108	100	68
		Males.	402	21	23	24	22	18	12	27	34	54	68	60	39
		Fem.	282	11	17	14	14	18	15	15	31	38	40	40	29
	Typho-malarial fever	Totals.	3	.....	.....	.....	.....	.....	1	.....	.....	1	1	.....	.....
		Males.	2	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....
		Fem.	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
4	Malarial fever	Totals.	38	.....	4	2	5	1	2	7	2	7	3	2	3
		Males.	17	.....	1	1	2	1	2	3	1	4	2	.....	.....
		Fem.	21	.....	3	1	3	.....	.....	4	1	3	1	2	3
5	Smallpox	Totals.	11	3	1	1	2	1	1	.....	2	.....	.....	.....	.....
		Males.	6	1	1	1	2	1	.....	.....	.....	.....	.....	.....	.....
		Fem.	5	2	.....	.....	.....	.....	1	.....	2	.....	.....	.....	.....
6	Measles	Totals.	121	7	11	9	7	21	10	8	4	4	11	12	17
		Males.	64	5	7	4	4	7	8	2	2	4	7	6	8
		Fem.	57	2	4	5	3	14	2	6	2	...	4	6	9
7	Scarlet fever	Totals.	194	35	26	28	26	19	7	8	7	2	13	10	13
		Males.	90	12	14	14	13	7	5	4	4	1	7	5	4
		Fem.	104	23	12	14	13	12	2	4	3	1	6	5	9
8	Whooping cough	Totals.	305	20	24	31	43	32	25	25	27	23	27	16	12
		Males.	137	7	10	14	19	20	12	11	13	9	13	6	3
		Fem.	168	13	14	17	24	12	13	14	14	14	14	10	9
9	Diphtheria	Totals.	286	30	32	24	17	16	11	16	17	23	34	27	39
		Males.	136	17	14	12	8	4	1	10	8	11	18	16	17
		Fem.	150	13	18	12	9	12	10	6	9	12	16	11	22
	Croup	Totals.	26	9	6	2	.....	2	.....	.....	.....	.....	3	4	.....
		Males.	16	6	3	2	.....	1	.....	.....	.....	.....	3	1	.....
		Fem.	10	3	3	.....	.....	1	.....	.....	.....	.....	.....	3	.....
	Membranous croup	Totals.	31	7	3	2	3	2	2	.....	1	2	1	4	4
		Males.	16	2	1	1	3	1	1	.....	1	1	1	3	1
		Fem.	15	5	2	1	.....	1	1	.....	.....	1	.....	1	3
10	Influenza	Totals.	633	93	185	148	92	42	15	5	6	9	5	13	20
		Males.	272	42	74	55	50	15	5	4	4	5	.....	6	12
		Fem.	361	51	111	93	42	27	10	1	2	4	5	7	8
13	Cholera nostras	Totals.	40	.....	1	1	2	.....	1	4	15	11	4	1	.....
		Males.	16	.....	1	.....	.....	.....	.....	2	6	5	1	1	.....
		Fem.	24	.....	.....	1	2	.....	1	2	9	6	3	.....	.....
14	Dysentery	Totals.	192	2	3	5	2	3	3	12	52	60	37	10	3
		Males.	82	1	2	3	.....	.....	1	5	25	27	15	2	1
		Fem.	110	1	1	2	2	3	2	7	27	33	22	8	2
18	Erysipelas	Totals.	99	8	15	16	15	10	6	4	4	3	2	7	9
		Males.	55	5	11	6	8	7	4	2	2	1	2	3	4
		Fem.	44	3	4	10	7	3	2	2	2	2	.....	4	5
19	Chicken-pox	Totals.	4	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	2
		Males.	3	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	1
		Fem.	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
	German measles	Totals.	3	.....	1	.....	1	.....	.....	.....	.....	.....	1	.....	.....
		Males.	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	2	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
	Mumps	Totals.	3	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	1
		Males.	3	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	1
		Fem.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Digitized by Google

ages and sex, during the year 1908. (Stillbirths excluded).

Ages in years under five.					Ages in five year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
7697	1200	599	349	240	10085	753	607	1038	1366	1239	1227	1184	1196	1389	1590	1826	2148	2406	2616	2610	3440	41	
4351	656	317	171	125	5620	365	309	545	711	609	583	582	641	767	877	1012	1185	1310	1374	1467	1762	34	
3346	544	282	178	115	4465	388	298	493	655	630	644	602	555	622	713	814	963	1096	1242	1143	1678	7	
7	7	8	5	15	42	43	54	102	105	75	54	42	39	31	22	30	19	9	8	7	2	..	1
6	4	6	3	4	23	18	28	51	71	48	37	25	22	17	24	20	12	6	6	4	..	..	
1	3	2	2	11	19	25	26	51	34	27	17	17	17	14	8	10	7	3	2	3	2	..	
....	....	1	....	....	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	1	....	....	....	2	3	3	4	2	2	5	1	2	1	....	4	....	1	1	3	4	..	4
1	....	....	....	....	1	....	2	2	....	1	3	1	1	....	....	2	....	1	....	2	1	..	
....	1	....	....	....	1	3	1	2	2	1	2	....	1	1	....	2	....	....	1	1	3	..	
3	1	....	....	....	4	3	....	....	....	1	....	....	....	1	....	....	....	....	....	1	1	..	5
2	....	....	....	....	2	1	....	....	....	....	....	....	....	1	....	....	....	....	....	1	1	..	
1	1	....	....	....	2	2	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..	
28	38	16	5	5	92	19	2	2	1	....	....	1	2	1	....	....	....	....	....	....	1	..	6
15	19	8	2	5	49	10	1	2	1	....	....	....	1	....	....	....	....	....	....	....	....	..	
13	19	8	3	....	43	9	1	....	....	....	....	1	1	1	....	....	....	....	....	....	1	..	
13	24	29	23	16	105	56	17	5	3	4	2	1	....	....	1	....	....	....	....	....	....	..	7
5	14	16	10	4	49	23	10	4	1	2	1	....	....	....	....	....	....	....	....	....	....	..	
8	10	13	13	12	56	33	7	1	2	2	1	1	....	....	1	....	....	....	....	....	....	..	
206	59	13	13	5	296	5	1	2	1	....	....	....	....	....	....	....	....	....	....	....	....	..	8
94	28	6	5	3	136	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
112	31	7	8	2	160	4	1	2	1	....	....	....	....	....	....	....	....	....	....	....	....	..	
16	22	34	32	34	138	100	26	8	7	1	3	....	....	2	....	....	....	1	....	....	....	..	9
7	8	16	17	16	64	49	15	4	2	....	1	....	....	1	....	....	....	....	....	....	....	..	
9	14	18	15	18	74	51	11	4	5	1	2	....	....	1	....	....	....	1	....	....	....	..	
8	4	4	1	5	22	2	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	..	
5	2	4	....	3	14	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	..	
3	2	....	1	2	8	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	..	
4	2	3	6	4	19	11	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
2	....	2	3	3	10	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
2	2	1	3	1	9	5	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
43	10	7	3	1	64	5	4	4	6	8	14	15	16	15	28	31	38	57	83	109	133	3	10
19	5	6	1	....	31	1	2	2	1	1	6	7	7	6	13	20	16	24	28	49	56	2	
24	5	1	2	1	33	4	2	2	5	7	8	8	9	9	15	11	22	33	55	60	77	1	
14	2	1	....	....	17	2	....	....	1	1	2	....	3	1	....	2	3	1	1	2	4	..	13
7	2	....	....	....	9	....	....	....	....	....	1	....	1	....	....	....	2	....	1	1	1	..	
7	....	1	....	....	8	2	....	....	1	1	1	....	2	1	....	2	1	1	....	1	3	..	
31	11	17	5	4	68	4	1	1	....	1	1	3	4	2	4	7	8	13	22	23	30	..	14
14	5	7	2	3	31	1	....	....	....	1	1	1	2	1	2	4	2	4	7	12	13	..	
17	6	10	3	1	37	3	1	1	....	....	....	2	2	1	2	3	6	9	15	11	17	..	
23	....	1	....	....	24	2	1	3	3	4	2	5	2	1	8	6	8	6	12	6	6	..	18
11	....	....	....	....	11	....	....	1	2	2	....	2	2	....	5	5	6	5	8	3	3	..	
12	....	1	....	....	13	2	1	2	1	2	2	3	....	1	3	1	2	1	4	3	3	..	
3	1	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	19
2	1	....	....	....	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	1	....	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	1	....	....	....	2	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	1	....	....	....	2	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	

Digitized by Google

Table III.—Continued.—Causes of death in Michigan, by months

Classification No.	Causes of death, 1908.	Sex.	Total deaths, 1908.	Months of deaths, 1908.											
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
(19)	Other epidemic diseases	Totals.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20	Septicemia	Totals.	189	11	17	19	16	18	15	18	19	15	10	15	16
		Males.	102	7	7	13	9	8	8	7	13	7	6	9	8
		Fem.	87	4	10	6	7	10	7	11	6	8	4	6	8
27	Tuberculosis of lungs	Totals.	2,249	193	228	204	219	222	179	195	166	114	175	178	176
		Males.	1,086	102	106	100	121	115	78	99	79	49	88	83	66
		Fem.	1,163	91	122	104	98	107	101	96	87	65	87	95	110
26	Tuberculosis of larynx	Totals.	27	.....	3	1	1	5	4	3	2	2	.....	4	2
		Males.	19	.....	2	1	1	2	3	2	1	2	.....	3	2
		Fem.	8	.....	1	.....	.....	3	1	1	1	.....	.....	1	.....
28	Tuberculous meningites.	Totals.	137	8	19	16	21	11	16	7	8	8	8	11	4
		Males.	63	4	9	11	7	6	6	2	5	4	1	5	3
		Fem.	74	4	10	5	14	5	10	5	3	4	7	6	1
29	Abdominal tuberculosis	Totals.	141	13	10	21	13	14	13	11	11	8	7	8	12
		Males.	65	8	3	10	7	6	5	6	4	3	4	1	8
		Fem.	76	5	7	11	6	8	8	5	7	5	3	7	4
30	Pott's disease	Totals.	34	1	5	3	4	2	4	.....	3	2	5	1	4
		Males.	21	.....	3	1	2	1	3	.....	3	1	4	1	2
		Fem.	13	1	2	2	2	1	1	.....	.....	1	1	.....	2
31	Tuberculous abscess	Totals.	6	.....	1	2	.....	.....	.....	.....	.....	1	1	1	.....
		Males.	3	.....	1	.....	.....	.....	.....	.....	.....	.....	1	1	.....
		Fem.	3	.....	.....	2	.....	.....	.....	.....	.....	1	.....	.....	.....
32	White swelling	Totals.	11	.....	2	1	.....	1	.....	2	1	4	.....	.....	.....
		Males.	6	.....	.....	1	.....	1	.....	1	1	2	.....	.....	.....
		Fem.	5	.....	2	.....	.....	.....	.....	1	.....	2	.....	.....	.....
33	Tuberculosis of other organs	Totals.	45	4	2	1	5	4	5	5	6	5	2	4	2
		Males.	29	3	1	1	4	3	2	2	5	2	2	3	1
		Fem.	16	1	1	.....	1	1	3	3	1	3	.....	1	1
34	General tuberculosis	Totals.	50	4	3	7	2	13	5	2	2	3	3	2	4
		Males.	25	2	2	3	.....	6	2	1	1	3	2	1	2
		Fem.	25	2	1	4	2	7	3	1	1	.....	1	1	2
35	Scrofula	Totals.	6	.....	.....	.....	.....	2	.....	1	3	.....	.....	.....	.....
		Males.	4	.....	.....	.....	.....	.....	.....	1	3	.....	.....	.....	.....
		Fem.	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
36–38	Venereal disease	Totals.	118	7	9	14	15	9	7	19	9	6	8	4	11
		Males.	73	5	6	10	11	7	1	10	6	2	5	3	7
		Fem.	45	2	3	4	4	2	6	9	3	4	3	1	4
39	Cancer of mouth	Totals.	77	9	7	15	2	3	6	7	8	4	6	2	8
		Males.	63	9	6	11	2	3	4	5	6	2	6	2	7
		Fem.	14	.....	1	4	.....	.....	2	2	2	2	.....	.....	1
40	Cancer of stomach and liver	Totals.	759	49	76	67	50	49	62	73	72	61	69	61	70
		Males.	383	31	31	33	26	21	30	34	38	37	34	30	38
		Fem.	376	18	45	34	24	28	32	39	34	24	35	31	32
41	Cancer of intestines	Totals.	220	16	21	13	21	13	18	19	26	17	19	20	17
		Males.	100	9	7	10	9	7	9	7	14	8	6	9	5
		Fem.	120	7	14	3	12	6	9	12	12	9	13	11	12
42	Cancer of genital organs	Totals.	285	28	20	16	23	23	30	23	26	24	23	23	26
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	285	28	20	16	23	23	30	23	26	24	23	23	26
43	Cancer of breast	Totals.	170	19	3	21	9	12	18	15	14	12	11	18	18
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	170	19	3	21	9	12	18	15	14	12	11	18	18

Digitized by Google

ages and sex, during the year 1908. (Stillbirths excluded.)

Ages in years.					Ages in five year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	19
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
18	2	...	7	2	29	9	3	14	15	15	15	13	6	8	15	9	12	9	5	3	9	..	20
11	1	...	3	1	16	7	1	4	5	5	7	6	6	5	9	7	5	7	3	1	8	..	
7	1	...	4	1	13	2	2	10	10	10	8	7	....	3	6	2	7	2	2	2	1	..	
19	14	9	3	5	50	21	62	200	394	332	280	179	145	131	109	108	71	79	48	26	12	2	27
8	6	4	2	1	21	5	17	86	181	163	126	87	81	63	66	67	39	39	24	15	5	1	
11	8	5	1	4	29	16	45	114	213	169	154	92	64	68	43	41	32	40	24	11	7	1	
....	....	....	....	....	....	1	....	2	4	....	4	2	4	3	2	1	2	2	....	....	....	..	26
....	....	....	....	....	....	1	....	1	4	....	3	1	2	2	1	1	2	1	....	....	....	..	
....	....	....	....	....	....	....	....	1	....	....	1	1	2	1	1	....	....	1	....	....	....	..	
27	19	13	6	9	74	16	15	8	9	4	2	....	1	1	1	2	2	....	....	2	....	..	28
9	9	7	2	5	32	6	9	3	7	1	....	....	....	1	....	1	2	....	....	1	....	..	
18	10	6	4	4	42	10	6	5	2	3	2	....	1	....	1	1	....	....	....	1	....	..	
9	3	1	...	...	13	5	1	14	18	13	13	5	6	12	7	9	6	7	4	6	1	1	29
3	1	1	...	...	5	2	1	5	8	3	7	1	3	7	4	7	8	1	3	4	....	1	
6	2	...	...	...	8	3	....	9	10	10	6	4	3	5	3	2	3	6	1	2	1	..	
1	....	....	....	....	1	3	3	4	1	2	3	4	2	2	2	3	....	2	1	....	1	..	30
....	....	....	....	....	....	3	3	2	....	1	2	3	....	1	2	2	....	1	....	....	1	..	
1	....	....	....	....	1	....	....	2	1	1	1	1	2	1	....	1	....	1	1	....	....	..	
1	....	....	....	....	1	....	1	1	2	....	....	....	....	....	....	....	....	....	....	1	....	..	31
....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	..	
....	....	....	....	....	....	2	....	5	1	....	....	2	....	....	....	....	....	....	....	1	....	..	32
....	....	....	....	....	....	1	....	3	1	....	....	1	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	1	....	2	....	....	....	1	....	....	....	....	....	....	....	1	....	..	
5	1	...	...	...	6	1	1	1	2	2	4	8	5	3	3	2	3	....	3	1	....	..	33
4	1	...	...	...	5	1	....	1	1	....	1	5	4	3	3	2	2	....	1	....	....	..	
1	....	...	...	...	1	....	1	....	1	2	3	3	1	....	....	....	1	....	2	1	....	..	
4	1	2	...	...	7	1	1	2	8	7	6	3	....	3	3	2	4	1	1	1	....	..	34
2	....	1	...	...	3	1	....	1	3	5	5	2	....	....	2	....	3	....	....	....	....	..	
2	1	1	...	...	4	....	1	1	5	2	1	1	....	3	1	2	1	1	1	1	....	..	
5	1	...	...	...	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	35
4	....	...	...	...	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1	1	...	...	...	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
101	1	1	...	...	103	....	....	1	3	2	....	3	3	1	1	....	....	1	....	....	....	..	36–38
63	....	....	...	...	63	....	....	1	3	1	....	1	2	....	1	....	....	1	....	....	....	..	
38	1	1	...	...	40	....	....	....	....	1	....	2	1	1	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	1	....	....	....	5	5	3	9	14	11	9	5	7	8	..	39
....	....	....	....	....	....	....	....	....	....	....	....	4	4	3	6	10	11	9	4	7	5	..	
....	....	....	....	....	....	....	....	1	....	....	....	1	1	....	3	4	....	....	1	....	3	..	
2	....	....	....	1	3	....	1	1	2	4	7	22	36	66	89	97	108	117	104	71	31	..	40
1	....	....	....	1	2	....	....	....	1	3	2	8	16	33	40	47	52	58	55	46	20	..	
1	....	....	....	....	1	....	1	1	1	1	5	14	20	33	49	50	56	59	49	25	11	..	
1	....	1	...	1	3	....	....	....	1	6	7	10	14	14	13	30	32	36	23	20	11	..	41
....	....	1	...	1	2	....	....	....	1	3	3	7	4	5	5	16	11	15	12	9	7	..	
1	....	....	...	....	1	....	....	....	....	3	4	3	10	9	8	14	21	21	11	11	4	..	
....	....	....	....	....	....	1	....	1	1	2	13	16	27	41	48	38	42	24	14	11	6	..	42
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	1	....	1	1	2	13	16	27	41	48	38	42	24	14	11	6	..	
....	....	....	....	....	....	....	....	....	1	1	3	7	11	17	16	19	31	18	15	11	20	..	43
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	1	1	3	7	11	17	16	19	31	18	15	11	20	..	

Digitized by Google

Table III.—Concluded.—Causes of death in Michigan, by months.

Classification No.	Causes of death, 1908.	Sex.	Total deaths, 1908.	Months of deaths, 1908.											
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
44	Cancer of skin	Totals.	123	12	7	11	15	9	11	7	16	9	9	11	6
		Males.	83	7	5	9	10	4	7	4	12	6	7	8	4
		Fem.	40	5	2	2	5	5	4	3	4	3	2	3	2
45	Cancer of other organs	Totals.	287	26	24	34	20	19	36	18	21	18	25	23	23
		Males.	146	13	12	14	8	11	21	11	13	6	16	10	11
		Fem.	141	13	12	20	12	8	15	7	8	12	9	13	12
46	Tumors	Totals.	36	4	3	2	3	2	3	3	8	2	3	3	.....
		Males.	14	1	1	1	1	1	1	.....	4	1	1	2	.....
		Fem.	22	3	2	1	2	1	2	3	4	1	2	1	.....
47–48	Rheumatism	Totals.	245	29	22	36	23	26	12	16	14	21	17	14	15
		Males.	124	14	13	21	15	14	4	7	7	6	11	5	7
		Fem.	121	15	9	15	8	12	8	9	7	15	6	9	8
50	Diabetes	Totals.	359	27	35	41	41	18	22	18	30	36	30	29	32
		Males.	160	10	12	25	23	8	7	8	15	16	11	12	13
		Fem.	199	17	23	16	18	10	15	10	15	20	19	17	19
53–54	Anemia	Totals.	304	23	28	36	26	33	26	19	23	26	21	25	18
		Males.	132	10	14	17	10	16	10	8	7	11	8	13	8
		Fem.	172	13	14	19	16	17	16	11	16	15	13	12	10
56	Alcoholism	Totals.	66	4	5	5	11	6	3	6	3	5	6	4	8
		Males.	60	4	4	5	10	6	3	6	3	4	4	4	7
		Fem.	6	.....	1	.....	1	.....	.....	.....	.....	1	2	.....	1
57–59	Chronic poisoning	Totals.	6	.....	1	.....	2	1	.....	.....	.....	.....	.....	1	1
		Males.	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....
		Fem.	4	.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	1
55	Other general diseases	Totals.	125	7	9	17	16	11	15	7	11	7	9	11	5
		Males.	38	3	3	4	6	5	5	2	2	1	3	1	3
		Fem.	87	4	6	13	10	6	10	5	9	6	6	10	2
60	Encephalitis	Totals.	45	7	2	5	2	2	3	3	10	5	3	3	.....
		Males.	26	3	2	2	2	1	1	2	6	5	1	1	.....
		Fem.	19	4	.....	3	.....	1	2	1	4	.....	2	2	.....
61	Meningitis	Totals.	480	29	49	44	46	37	37	42	46	44	45	42	19
		Males.	247	13	31	21	25	20	20	20	21	21	24	22	9
		Fem.	233	16	18	23	21	17	17	22	25	23	21	20	10
62	Locomotor ataxia	Totals.	69	5	7	6	7	6	7	3	4	4	8	5	7
		Males.	52	4	4	5	4	5	5	3	2	4	6	4	6
		Fem.	17	1	3	1	3	1	2	.....	2	.....	2	1	1
63	Other diseases of spinal cord	Totals.	125	9	7	14	9	12	7	10	10	12	22	10	3
		Males.	72	3	4	12	6	6	3	7	6	3	15	6	1
		Fem.	53	6	3	2	3	6	4	3	4	9	7	4	2
64	Apoplexy	Totals.	1,669	171	154	150	152	148	130	118	129	120	136	147	114
		Males.	895	90	84	80	91	79	79	62	58	67	69	72	64
		Fem.	774	81	70	70	61	69	51	56	71	53	67	75	50
65	Softening of brain	Totals.	91	7	7	9	7	7	13	6	6	8	9	5	7
		Males.	57	3	7	7	2	7	9	.....	3	5	7	3	4
		Fem.	34	4	.....	2	5	.....	4	6	3	3	2	2	3
66	Paralysis	Totals.	870	80	80	73	85	70	61	64	73	74	73	67	70
		Males.	438	42	46	33	47	34	27	36	31	36	43	29	34
		Fem.	432	38	34	40	38	36	34	28	42	38	30	38	36
67	General paralysis of insane	Totals.	129	7	10	11	9	15	11	5	14	8	13	15	13
		Males.	99	6	6	10	7	10	8	4	13	7	9	8	11
		Fem.	30	1	4	1	2	3	3	1	1	1	4	7	2
68	Other forms of mental disease	Totals.	62	6	4	4	4	3	7	6	4	5	8	9	3
		Males.	20	2	2	1	1	.....	2	.....	2	.....	5	5	.....
		Fem.	42	4	2	3	2	3	5	6	2	5	3	4	3

Digitized by Google

ages and sex, during the year 1908. (Stillbirths excluded.)

Ages in years under five.					Ages in five year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 30.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
2	....	....	....	....	2	1	....	....	....	....	1	6	3	7	7	10	13	13	15	19	26	..	44
2	....	....	....	....	2	1	....	....	....	....	1	3	1	5	5	5	10	9	10	11	20	..	
....	....	....	....	....	....	....	....	....	....	....	....	3	2	2	2	5	3	4	5	8	6	..	
....	1	2	3	2	8	3	....	1	6	1	10	12	16	20	24	25	44	40	34	27	16	..	45
....	....	2	1	....	3	2	....	....	4	1	5	6	5	9	7	12	27	22	16	17	10	..	
....	1	....	2	2	5	1	....	1	2	....	5	6	11	11	17	13	17	18	18	10	6	..	
....	....	1	....	....	1	....	1	1	....	2	1	....	....	4	4	2	6	2	3	5	4	..	46
....	....	1	....	....	1	....	....	1	....	....	1	....	....	....	1	1	....	2	3	4	....	..	
....	....	....	....	....	....	....	1	....	....	2	....	....	....	4	3	1	6	....	....	1	4	..	
4	....	1	1	2	8	22	15	14	13	11	10	9	10	15	8	10	31	20	18	22	9	..	47–48
3	....	....	1	1	5	10	6	8	9	7	7	6	5	10	4	5	8	8	8	14	4	..	
1	....	1	....	1	3	12	9	6	4	4	3	3	5	5	4	5	23	12	10	8	5	..	
1	2	6	6	....	15	13	14	11	14	10	17	7	13	18	33	28	46	51	42	14	12	1	50
1	....	4	1	....	6	6	5	7	6	3	9	3	5	7	17	10	24	20	19	8	5	..	
....	2	2	5	....	9	7	9	4	8	7	8	4	8	11	16	18	22	31	23	6	7	1	
11	8	2	1	1	23	7	6	5	17	8	15	20	28	18	30	37	33	23	15	12	7	..	53–54
5	6	1	1	....	13	4	3	1	6	4	3	5	12	7	13	15	14	10	8	7	7	..	
6	2	1	....	1	10	3	3	4	11	4	12	15	16	11	17	22	19	13	7	5	....	..	
....	....	....	....	....	....	....	....	....	....	3	10	6	9	11	7	8	5	1	1	2	1	2	56
....	....	....	....	....	....	....	....	....	....	2	9	6	8	11	6	7	4	1	1	2	1	2	
....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	1	1	1	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	3	1	....	..	57–59
....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	2	1	....	..	
14	5	3	....	....	22	3	4	4	7	3	11	10	9	6	9	8	9	8	8	1	3	..	55
9	3	1	....	....	13	1	3	....	2	....	2	2	2	1	2	3	....	3	3	....	1	..	
5	2	2	....	....	9	2	1	4	5	3	9	8	7	5	7	5	9	5	5	1	2	..	
15	3	2	3	2	25	2	2	2	1	....	3	3	1	1	1	1	3	....	....	....	....	..	60
10	2	1	....	1	14	....	2	2	1	....	2	2	1	....	....	....	2	....	....	....	....	..	
5	1	1	3	1	11	2	....	....	....	....	1	1	....	1	1	1	1	....	....	....	....	..	
155	62	38	22	12	289	28	23	28	16	14	15	14	11	8	11	2	5	9	4	2	1	..	61
83	30	18	10	7	148	9	7	17	8	7	8	7	8	6	7	1	3	7	3	....	1	..	
72	32	20	12	5	141	19	16	11	8	7	7	7	3	2	4	1	2	2	1	2	....	..	
....	....	....	....	....	....	....	....	....	....	1	1	4	2	4	11	14	13	13	3	2	1	..	62
....	....	....	....	....	....	....	....	....	....	1	....	1	2	4	9	11	9	10	3	1	1	..	
....	....	....	....	....	....	....	....	....	....	....	1	3	....	....	2	3	4	3	....	1	....	..	
9	4	....	1	4	18	4	4	2	8	3	6	4	5	7	5	15	8	11	13	8	4	..	63
3	1	....	....	4	8	1	1	2	5	2	3	1	4	5	2	7	4	6	10	7	4	..	
6	3	....	1	....	10	3	3	....	3	1	3	3	1	2	3	8	4	5	3	1	....	..	
15	2	2	2	1	22	6	2	7	4	14	22	27	39	75	104	152	202	237	250	250	254	2	64
9	1	2	....	....	12	4	1	3	3	8	9	12	23	41	64	88	108	138	123	129	127	2	
6	1	....	2	1	10	2	1	4	1	6	13	15	16	34	40	64	94	99	127	121	127	..	
....	....	....	....	....	....	....	....	....	....	....	....	1	1	2	7	6	9	6	21	19	18	1	65
....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	3	1	5	3	14	15	13	..	
....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	4	5	4	3	7	4	5	1	
6	1	1	....	1	9	....	5	4	4	2	9	13	14	24	41	52	88	118	147	148	191	1	66
3	....	1	....	1	5	....	1	2	3	2	4	7	8	13	17	16	49	64	72	81	93	1	
3	1	....	....	....	4	....	4	2	1	....	5	6	6	11	24	36	39	54	75	67	98	..	
....	....	....	....	....	....	....	....	1	1	3	4	11	16	27	18	12	6	12	9	3	6	..	67
....	....	....	....	....	....	....	....	1	1	1	4	8	13	22	17	8	5	7	5	2	5	..	
....	....	....	....	....	....	....	....	....	....	2	....	3	3	5	1	4	1	5	4	1	1	..	
....	....	....	....	....	....	....	....	2	3	1	3	4	3	3	9	7	6	6	4	4	6	1	68
....	....	....	....	....	....	....	....	....	1	....	....	2	....	1	5	3	1	2	1	2	2	..	
....	....	....	....	....	....	....	....	2	2	1	3	2	3	2	4	4	5	4	3	2	4	1	

Digitized by Google

Table III.—Continued.—Causes of death in Michigan, by months.

Classification No.	Causes of death, 1908.	Sex.	Total deaths, 1908.	Months of deaths, 1908.											
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
(74)	Other diseases of brain	Totals.	104	13	10	7	8	8	11	6	9	8	10	8	6
		Males.	56	9	4	1	5	4	6	3	3	5	5	6	5
		Fem.	48	4	6	6	3	4	5	3	6	3	5	2	1
69	Epilepsy	Totals.	144	19	10	14	12	9	8	4	15	18	5	17	13
		Males.	78	8	8	5	4	7	6	2	6	9	2	14	7
		Fem.	66	11	2	9	8	2	2	2	9	9	3	3	6
70–71	Convulsions	Totals.	454	28	43	51	48	47	32	37	41	35	31	36	25
		Males.	258	20	22	31	29	26	19	18	23	20	19	20	11
		Fem.	196	8	21	20	19	21	13	19	18	15	12	16	14
72	Tetanus	Totals.	34	3	.....	1	2	5	2	7	1	5	5	1	2
		Males.	27	3	.....	1	1	4	.....	7	.....	4	4	1	2
		Fem.	7	.....	.....	.....	1	1	2	.....	1	1	1	.....	.....
73–76	Other diseases of nervous system	Totals.	76	4	9	5	6	3	8	8	13	6	2	4	8
		Males.	39	1	3	3	4	1	4	4	6	3	1	3	6
		Fem.	37	3	6	2	2	2	4	4	7	3	1	1	2
77	Pericarditis	Totals.	28	2	2	3	5	2	1	4	3	2	2	2	.....
		Males.	11	.....	1	1	1	1	1	2	3	1	.....	.....	.....
		Fem.	17	2	1	2	4	1	.....	2	.....	1	2	2	.....
78	Endocarditis	Totals.	192	19	14	22	16	23	10	20	14	16	10	19	9
		Males.	100	7	8	10	9	12	5	10	7	5	7	11	9
		Fem.	92	12	6	12	7	11	5	10	7	11	3	8	.....
79	Heart disease	Totals.	3,768	340	360	339	347	322	296	271	257	281	300	333	322
		Males.	2,109	184	205	191	195	175	163	163	165	155	151	184	178
		Fem.	1,659	156	155	148	152	147	133	108	92	126	149	149	144
80	Angina pectoris	Totals.	214	20	12	23	27	23	20	9	16	12	21	16	15
		Males.	130	15	4	17	12	14	12	6	12	6	12	9	11
		Fem.	84	5	8	6	15	9	8	3	4	6	9	7	4
81	Disease of arteries	Totals.	319	31	16	20	29	23	31	24	34	22	30	32	27
		Males.	204	20	11	11	19	18	22	13	20	14	19	21	16
		Fem.	115	11	5	9	10	5	9	11	14	8	11	11	11
82	Embolism	Totals.	77	3	7	11	7	3	7	9	6	3	9	6	6
		Males.	30	1	2	1	3	1	5	3	2	3	3	3	3
		Fem.	47	2	5	10	4	2	2	6	4	.....	6	3	3
83	Diseases of veins	Totals.	9	1	1	.....	2	.....	1	.....	.....	.....	1	2	1
		Males.	6	1	.....	.....	2	.....	.....	.....	.....	.....	1	2	.....
		Fem.	3	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1
84	Diseases of lymphatics	Totals.	8	.....	2	.....	2	.....	.....	.....	1	.....	1	1	1
		Males.	3	.....	.....	.....	1	.....	.....	.....	1	.....	1	.....	.....
		Fem.	5	.....	2	.....	1	.....	.....	.....	.....	.....	.....	1	1
85–86	Other diseases of circulatory system	Totals.	38	4	3	5	3	1	1	4	5	2	2	5	3
		Males.	14	1	1	1	1	1	.....	2	2	1	.....	2	2
		Fem.	24	3	2	4	2	.....	1	2	3	1	2	3	1
88	Laryngitis	Totals.	10	1	3	1	.....	1	.....	.....	.....	.....	1	2	1
		Males.	7	1	2	1	.....	1	.....	.....	.....	.....	.....	1	1
		Fem.	3	.....	1	.....	.....	.....	.....	.....	.....	.....	1	1	.....
	Other diseases of larynx	Totals.	43	4	6	8	2	3	3	1	.....	6	3	5	2
		Males.	20	3	3	4	1	2	1	.....	.....	3	2	.....	1
		Fem.	23	1	3	4	1	1	2	1	.....	3	1	5	1
89	Diseases of thyroid body	Totals.	12	.....	1	1	.....	.....	1	1	1	.....	2	5	.....
		Males.	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
		Fem.	10	.....	1	.....	.....	.....	1	1	1	.....	2	4	.....
90	Acute bronchitis	Totals.	389	47	62	43	56	36	21	12	9	17	26	28	28
		Males.	189	22	31	21	32	14	13	4	4	6	14	15	13
		Fem.	200	25	31	26	24	22	8	8	5	11	12	13	15

Digitized by Google

ages and sex, during the year 1908. (Stillbirths excluded.)

Ages in years.					Ages in five year periods.																		
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	Classification No.
8	1	...	4	...	13	3	3	7	11	4	7	11	6	4	7	4	9	4	4	3	4	..	74
3	1	...	3	...	7	1	1	5	8	3	5	6	2	...	3	3	2	3	3	2	2	..	
5	...	...	1	...	6	2	2	2	3	1	2	5	4	4	4	1	7	1	1	1	2	..	
8	1	1	1	...	11	4	10	9	12	12	11	8	9	16	8	7	4	4	7	9	3	..	69
5	1	...	1	...	7	2	6	4	7	5	8	6	4	8	5	4	...	3	3	5	1	..	
3	...	1	...	...	4	2	4	5	5	7	3	2	5	8	3	3	4	1	4	4	2	..	
375	37	13	6	3	434	4	...	4	1	3	3	2	...	...	1	...	...	...	1	...	1	..	70–71
215	24	9	1	1	250	2	...	1	...	...	1	1	...	...	1	...	...	...	1	...	1	..	
160	13	4	5	2	184	2	...	3	1	3	2	1	...	...	...	...	...	...	...	...	...	..	
7	...	...	1	...	8	5	4	4	2	1	2	...	1	3	...	1	2	1	...	...	...	..	72
5	...	...	1	...	6	2	4	4	2	1	1	...	1	2	...	1	2	1	...	...	...	..	
2	...	...	...	...	2	3	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	..	
7	...	...	...	1	8	2	2	3	4	2	6	5	4	3	8	7	4	7	6	3	2	..	73–76
6	...	...	...	1	7	1	...	1	2	1	2	3	2	2	6	2	4	2	2	1	1	..	
1	...	...	...	...	1	1	2	2	2	1	4	2	2	1	2	5	...	5	4	2	1	..	
...	1	...	...	...	1	1	2	1	2	1	1	2	1	1	2	2	3	...	5	2	1	..	77
...	1	...	...	...	1	...	...	1	1	...	...	1	...	...	2	...	1	...	2	1	1	..	
...	...	...	...	...	...	1	2	...	1	1	1	1	1	1	...	2	2	...	3	1	...	..	
1	...	5	2	...	8	7	6	5	4	8	7	4	8	4	14	17	23	20	20	19	18	..	78
...	...	4	1	...	5	3	2	3	3	6	4	...	4	2	7	12	13	8	11	10	7	..	
1	...	1	1	...	3	4	4	2	1	2	3	4	4	2	7	5	10	12	9	9	11	..	
71	5	3	3	6	88	24	30	44	56	66	76	99	115	161	219	284	406	471	576	520	533	..	79
44	2	2	1	3	52	11	12	26	35	36	29	51	59	88	124	153	260	258	313	312	290	..	
27	3	1	2	3	36	13	18	18	21	30	47	48	56	73	95	131	146	213	263	208	243	..	
...	...	...	...	...	...	1	1	2	2	6	3	2	11	11	18	23	27	29	32	25	21	..	80
...	...	...	...	...	...	1	...	1	...	2	...	1	7	8	11	18	20	15	20	14	12	..	
...	...	...	...	...	...	...	1	1	1	4	3	1	4	3	7	5	7	14	12	11	9	..	
1	...	...	...	...	1	1	2	...	1	1	...	2	3	7	15	12	29	27	68	72	75	3	81
1	...	...	...	...	1	1	2	...	1	...	...	...	3	2	14	7	23	17	43	49	39	2	
...	...	...	...	...	...	...	...	...	...	1	...	2	...	5	1	5	6	10	25	23	36	1	
1	...	2	...	...	3	...	1	1	4	2	6	2	4	7	2	7	7	13	9	3	6	..	82
1	...	...	...	...	1	...	1	1	1	...	...	...	2	2	...	4	6	6	4	...	2	..	
...	...	2	...	...	2	...	...	...	3	2	6	2	2	5	2	3	1	7	5	3	4	..	
...	...	...	1	...	1	...	...	...	...	1	...	1	...	...	1	...	...	2	...	1	2	..	83
...	...	...	1	...	1	...	...	...	...	...	...	1	...	...	1	...	...	2	...	1	...	..	
...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2	..	
1	...	1	1	...	3	...	1	1	...	...	1	...	...	...	...	...	1	1	...	...	...	..	84
...	...	1	1	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
1	...	...	...	...	1	...	...	1	...	...	1	...	...	...	...	...	1	1	...	...	...	..	
3	4	1	2	...	10	...	1	...	3	4	1	1	1	4	1	3	3	3	1	1	...	1	85–86
2	2	1	1	...	6	...	...	...	1	1	...	1	1	1	...	1	...	1	...	...	...	1	
1	2	...	1	...	4	...	1	...	2	3	1	...	...	3	1	2	3	2	1	1	...	..	
4	1	2	...	...	7	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	..	88
4	1	1	...	...	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
...	...	1	...	...	1	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	..	
13	3	8	4	1	29	5	1	1	1	1	...	1	...	...	...	1	1	...	1	...	1	..	
8	2	2	3	...	15	2	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	..	
5	1	6	1	1	14	3	1	1	...	...	...	1	...	...	...	1	1	...	...	...	1	..	
3	...	1	...	...	4	...	...	...	...	...	...	...	1	...	1	1	...	4	1	...	...	..	89
1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	..	
2	...	1	...	...	3	...	...	...	...	...	...	...	1	...	1	1	...	4	...	...	...	..	
209	43	14	6	4	276	5	1	3	3	1	1	2	1	2	1	8	6	8	16	17	38	..	CO
125	19	7	...	1	152	1	1	1	1	...	...	...	...	2	...	5	1	2	5	6	12	..	
84	24	7	6	3	124	4	...	2	2	1	1	2	1	...	1	3	5	6	11	11	26	..	

Digitized by Google

Table III.—Continued.—Causes of death in Michigan, by months.

Classification No.	Causes of death, 1908.	Sex.	Total deaths, 1908.	Months of deaths, 1908. Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
91	Chronic bronchitis	Totals.	238	32	21	29	32	17	10	6	15	13	21	25	17
		Males.	113	17	7	12	16	9	5	4	7	4	9	14	9
		Fem.	125	15	14	17	16	8	5	2	8	9	12	11	8
92	Bronchopneumonia	Totals.	485	66	67	66	60	42	16	18	14	24	30	43	39
		Males.	256	36	36	38	34	20	10	7	9	10	13	16	27
		Fem.	229	30	31	28	26	22	6	11	5	14	17	27	12
93	Pneumonia	Totals.	1,828	267	284	254	234	180	73	44	32	63	97	150	150
		Males.	1,036	154	143	146	137	104	40	27	14	40	53	84	94
		Fem.	792	113	141	108	97	76	33	17	18	23	44	66	56
94	Pleurisy	Totals.	65	7	3	8	10	6	6	8	4	1	3	4	5
		Males.	37	6	3	3	4	4	2	5	3	.....	2	2	3
		Fem.	28	1	.....	5	6	2	4	3	1	1	1	2	2
95	Congestion of lungs	Totals.	132	12	13	12	17	15	8	1	5	11	13	15	10
		Males.	72	7	6	6	9	8	6	1	4	8	8	4	5
		Fem.	60	5	7	6	8	7	2	.....	1	3	5	11	5
96	Gangrene of lungs	Totals.	7	.....	1	.....	1	.....	.....	1	.....	1	.....	.....	3
		Males.	3	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	1
		Fem.	4	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	2
97–98	Asthma and emphysema	Totals.	88	8	7	5	7	8	10	4	3	10	11	10	5
		Males.	48	4	3	5	3	2	7	2	2	8	5	4	3
		Fem.	40	4	4	.....	4	6	3	2	1	2	6	6	2
99	Hemorrhage of lungs	Totals.	33	1	3	5	1	2	2	4	3	3	2	2	5
		Males.	16	.....	2	3	.....	1	1	4	.....	2	.....	.....	3
		Fem.	17	1	1	2	1	1	1	.....	3	1	2	2	2
	Other diseases of respiratory organs	Totals.	69	8	8	8	5	6	5	4	2	6	3	6	8
		Males.	33	5	4	2	4	2	2	3	1	1	2	3	4
		Fem.	36	3	4	6	1	4	3	1	1	5	1	3	4
100	Diseases of mouth	Totals.	28	5	1	2	3	1	.....	.....	2	4	7	1	2
		Males.	14	2	.....	2	3	1	.....	.....	.....	2	3	.....	1
		Fem.	14	3	1	.....	.....	.....	.....	.....	2	2	4	1	1
101	Tonsilitis	Totals.	20	.....	.....	6	6	1	.....	.....	2	1	.....	1	3
		Males.	11	.....	.....	4	2	1	.....	.....	1	1	.....	1	1
		Fem.	9	.....	.....	2	4	.....	.....	.....	1	.....	.....	.....	2
	Other diseases of pharynx	Totals.	32	3	3	5	.....	3	.....	5	1	3	3	5	1
		Males.	24	1	3	5	.....	2	.....	4	1	2	2	4	.....
		Fem.	8	2	.....	.....	.....	1	.....	1	.....	1	1	1	1
103	Ulcer of stomach	Totals.	96	8	12	5	8	2	8	7	9	8	11	9	9
		Males.	53	2	6	3	3	2	6	6	4	4	8	6	3
		Fem.	43	6	6	2	5	.....	2	1	5	4	3	3	6
104	Gastritis	Totals.	235	17	12	18	25	15	18	22	23	24	25	13	23
		Males.	115	10	6	10	13	10	8	7	12	10	14	7	8
		Fem.	120	7	6	8	12	5	10	15	11	14	11	6	15
	Other diseases of stomach	Totals.	326	27	29	27	28	28	12	24	20	38	45	22	28
		Males.	188	14	15	17	15	18	7	12	9	19	30	10	22
		Fem.	138	13	14	10	13	10	5	12	11	19	13	12	6
(314)	Dentition	Totals.	31	4	4	5	3	4	.....	2	1	2	2	2	2
		Males.	16	3	1	3	1	1	.....	1	1	2	2	.....	1
		Fem.	15	1	3	2	2	3	.....	1	.....	.....	.....	2	1
105	Diarrhea and enteritis (under 2 years)	Totals.	2,201	47	60	65	60	57	80	206	464	635	392	85	50
		Males.	1,237	31	32	43	37	34	40	106	260	366	216	42	30
		Fem.	964	16	28	22	23	23	40	100	204	269	176	43	20
106	Diarrhea and enteritis (over 2 years)	Totals.	532	29	16	28	28	16	20	45	97	134	86	19	14
		Males.	250	10	7	10	12	3	7	24	59	66	33	11	8
		Fem.	282	19	9	18	16	13	13	21	38	68	53	8	6

Digitized by Google

ages, and sex, during the year 1908. (Stillbirths excluded.)

Ages in years under five.					Ages in five year periods.																	Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 30.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
5	3	1	...	...	9	3	...	...	4	1	2	2	1	3	14	12	19	29	41	43	55	..	91
3	1	1	...	...	5	1	...	...	2	...	...	2	1	2	8	6	6	16	16	22	26	..	
2	2	...	...	...	4	2	...	...	2	1	2	...	...	1	6	6	13	13	25	21	29	..	
213	70	25	11	5	324	10	7	2	2	6	4	5	6	7	8	10	12	17	19	15	31	..	92
117	38	16	7	3	161	6	2	1	1	3	1	1	4	6	4	4	5	8	9	6	14	..	
93	32	9	4	2	143	4	5	1	1	3	3	4	2	1	4	6	7	9	10	9	17	..	
357	94	45	22	13	531	34	28	62	65	48	68	76	73	97	85	85	115	124	119	108	109	1	93
221	52	23	15	7	318	25	10	31	42	21	31	42	50	61	53	53	59	69	59	57	54	1	
136	42	22	7	6	213	9	18	31	23	27	37	34	23	36	32	32	56	55	60	51	55	..	
1	...	2	...	...	3	...	...	6	6	1	8	5	4	3	6	2	4	4	4	2	7	..	94
1	...	...	...	...	1	...	...	1	5	...	6	4	3	3	3	1	2	2	3	1	2	..	
...	...	2	...	...	2	...	...	5	1	1	2	1	1	...	3	1	2	2	1	1	5	..	
36	6	2	3	1	48	2	2	1	2	2	1	5	7	1	3	4	7	11	6	15	15	..	95
19	2	1	1	1	24	1	...	1	...	1	...	1	6	1	2	3	6	7	3	11	5	..	
17	4	1	2	...	24	1	2	...	2	1	1	4	1	...	1	1	1	4	3	4	10	..	
...	...	...	1	...	1	...	...	1	1	...	...	1	1	...	...	2	...	...	...	...	...	..	96
...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...	..	
...	...	...	1	...	1	...	...	1	1	...	...	...	...	...	...	1	...	...	...	...	...	..	
2	4	1	...	1	8	1	...	1	2	9	3	1	3	2	3	9	9	8	14	9	5	1	97–98
...	3	1	...	1	5	1	...	1	...	3	1	...	1	1	2	5	5	6	7	6	3	1	
2	1	...	...	...	3	...	...	...	2	6	2	1	2	1	1	4	4	2	7	3	2	..	
3	...	...	...	...	3	3	1	1	1	...	...	3	1	2	4	4	3	1	2	2	2	..	99
2	...	...	...	...	2	...	...	...	1	...	...	3	1	2	1	1	2	...	...	2	1	..	
1	...	...	...	...	1	3	1	1	...	...	...	...	...	...	3	3	1	1	2	...	1	..	
11	1	...	...	1	13	2	2	2	7	1	3	3	5	3	3	5	4	5	3	3	5	..	
6	1	...	...	...	7	1	...	...	4	1	3	1	3	1	2	3	1	3	...	2	1	..	
5	...	...	...	1	6	1	2	2	3	...	...	2	2	2	1	2	3	2	3	1	4	..	
21	1	...	...	...	22	2	...	...	...	...	1	...	...	2	...	...	...	...	...	1	...	..	100
12	1	...	...	...	13	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	..	
9	...	...	...	...	9	2	...	...	...	...	1	...	...	1	...	...	...	...	...	1	...	..	
4	2	...	...	3	9	3	2	2	1	...	...	2	...	...	...	...	...	...	...	...	1	..	101
3	1	...	...	2	6	2	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
1	1	...	...	1	3	1	...	1	1	...	...	2	...	...	...	...	...	...	...	...	1	..	
2	4	1	1	...	8	2	2	...	...	...	1	2	1	4	...	2	1	4	1	2	2	..	
2	2	...	1	...	5	1	1	...	...	...	1	2	1	2	...	2	1	3	1	2	2	..	
...	2	1	...	...	3	1	1	...	...	...	...	...	...	2	...	...	...	1	...	...	...	..	
1	...	...	...	...	1	2	1	...	4	4	1	4	11	4	10	18	11	10	8	2	5	..	103
...	...	...	...	...	...	1	...	...	1	1	...	2	4	2	5	15	6	7	5	1	3	..	
1	...	...	...	...	1	1	1	...	3	3	1	2	7	2	5	3	5	3	3	1	2	..	
35	10	3	5	2	55	6	4	...	3	7	7	3	6	11	8	15	15	19	21	20	35	..	104
20	3	2	2	1	28	4	2	...	...	2	2	2	3	8	2	8	9	7	11	10	17	..	
15	7	1	3	1	27	2	2	...	3	5	5	1	3	3	6	7	6	12	10	10	18	..	
187	7	6	2	1	203	2	3	2	3	1	3	5	3	8	10	8	6	16	18	14	21	..	
110	6	5	...	...	121	1	2	2	1	...	1	3	1	1	4	6	4	10	12	8	11	..	
77	1	1	2	1	82	1	1	...	2	1	2	2	2	7	6	2	2	6	6	6	10	..	
20	10	1	...	...	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	(314)
9	6	1	...	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
11	4	...	...	...	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
1796	405	...	...	...	2201	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	105
1005	232	...	...	...	1237	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
791	173	...	...	...	964	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
...	...	156	47	11	214	32	5	11	11	11	8	7	10	10	11	21	21	20	40	42	48	..	106
...	...	79	24	9	112	13	3	3	4	6	1	4	6	4	7	6	7	14	17	20	23	..	
...	...	77	23	2	102	19	2	8	7	5	7	3	4	6	4	15	14	16	23	22	25	..	

Digitized by Google

Table III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1908.	Sex.	Total deaths, 1908.	Months of deaths, 1908.											
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
108	Hernia	Totals.	90	5	10	7	3	10	10	13	8	4	8	3	9
		Males.	57	4	7	4	2	5	7	9	4	3	5	1	6
		Fem..	33	1	3	3	1	5	3	4	4	1	3	2	3
	Obstruction of intestines	Totals.	283	28	18	33	18	22	22	17	27	22	23	28	25
		Males.	129	8	7	15	7	9	9	9	16	13	12	11	13
		Fem..	154	20	11	18	11	13	13	8	11	9	11	17	12
107, 109	Other diseases of intestines	Totals.	98	7	8	9	4	12	8	7	8	7	7	8	13
		Males.	48	.....	5	5	4	7	3	6	2	3	2	5	6
		Fem..	50	7	3	4	.....	5	5	1	6	4	5	3	7
110	Acute yellow atrophy of liver	Totals.	32	4	5	5	5	2	1	2	1	4	1	1	2
		Males.	14	1	4	1	3	.....	1	1	.....	2	1	.....	.....
		Fem..	18	3	1	4	1	2	.....	1	1	2	.....	1	2
111	Hydatid tumors	Totals.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
112	Cirrhosis of liver	Totals.	284	24	25	24	22	24	25	24	21	28	16	27	24
		Males.	177	16	20	18	14	15	15	14	9	13	9	17	17
		Fem..	107	8	5	6	8	9	10	10	12	15	7	10	7
113	Biliary calculi	Totals.	85	5	6	8	9	8	7	5	7	9	4	7	10
		Males.	28	3	2	5	5	1	2	2	.....	2	1	2	3
		Fem..	57	2	4	3	4	7	5	3	7	7	3	5	7
114	Other diseases of liver	Totals.	176	17	15	19	20	15	16	10	14	8	17	12	13
		Males.	77	7	5	9	12	4	7	2	5	3	9	7	7
		Fem..	99	10	10	10	8	11	9	8	9	5	8	5	6
115	Diseases of spleen	Totals.	13	.....	2	2	2	.....	.....	.....	1	3	1	.....	2
		Males.	7	.....	.....	1	2	.....	.....	.....	.....	1	1	.....	2
		Fem..	6	.....	2	1	.....	.....	.....	.....	1	2	.....	.....	.....
116	Peritonitis	Totals.	246	22	15	18	26	19	22	15	20	26	25	23	15
		Males.	90	10	2	8	9	9	8	5	7	11	4	13	4
		Fem..	156	12	13	10	17	10	14	10	13	15	21	10	11
118	Appendicitis	Totals.	346	20	28	35	34	31	19	27	33	35	27	25	32
		Males.	208	11	21	20	23	18	9	13	22	26	16	13	16
		Fem..	138	9	7	15	11	13	10	14	11	9	11	12	16
117	Other diseases of digestive system	Totals.	10	.....	1	2	1	1	2	2	.....	1	.....	.....	.....
		Males.	3	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....
		Fem..	7	.....	1	1	1	1	1	1	.....	1	.....	.....	.....
119	Acute nephritis	Totals.	117	10	12	16	7	10	12	6	3	9	12	10	10
		Males.	69	4	7	11	4	6	10	1	2	6	6	5	7
		Fem..	48	6	5	5	3	4	2	5	1	3	6	5	3
120	Bright's disease	Totals.	1,370	130	100	122	114	123	106	104	114	107	123	107	120
		Males.	776	73	53	70	66	76	65	59	69	58	62	55	70
		Fem..	594	57	47	52	48	47	41	45	45	49	61	52	50
121	Other diseases of kidneys	Totals.	52	5	5	5	5	3	7	2	3	4	4	6	3
		Males.	31	3	.....	2	3	3	4	1	1	3	3	5	3
		Fem..	21	2	5	3	2	.....	3	1	2	1	1	1	.....
122	Calculi of urinary tract	Totals.	14	.....	1	2	4	1	.....	1	2	2	.....	.....	1
		Males.	9	.....	1	2	2	.....	.....	1	2	1	.....	.....	.....
		Fem..	5	.....	.....	.....	2	1	.....	.....	.....	1	.....	.....	1
123	Diseases of bladder	Totals.	110	11	5	11	14	16	7	9	8	7	7	7	8
		Males.	98	10	5	10	13	11	5	9	7	7	6	7	8
		Fem..	12	1	.....	1	1	5	2	.....	1	.....	1	.....	.....
129	Uterine tumor	Totals.	43	4	5	6	3	2	3	3	3	5	4	3	2
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	43	4	5	6	3	2	3	3	3	5	4	3	2

Digitized by Google

ages, and sex, during the year 1908. (Stillbirths excluded.)

Ages in years.					Ages in five year periods.																	Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
6	....	2	...	...	8	....	....	....	1	1	....	5	7	7	8	11	10	9	6	9	8	..	108
6	....	2	...	...	8	....	....	....	1	1	....	2	2	6	4	7	7	7	4	3	5	..	
....	....	....	...	...	....	....	....	....	....	....	....	3	5	1	4	4	3	2	2	6	3	..	
44	8	6	5	5	68	8	10	10	9	17	9	9	13	5	11	22	14	20	21	22	15	..	
20	4	...	4	3	31	6	8	6	2	9	1	3	3	2	4	10	5	11	14	7	7	..	
24	4	6	1	2	37	2	2	4	7	8	8	6	10	3	7	12	9	9	7	15	8	..	
6	3	...	...	1	10	5	1	....	6	3	9	2	2	5	7	9	4	9	6	11	9	..	107, 109
3	2	...	...	1	6	3	1	....	4	1	1	....	2	2	5	4	3	3	2	7	4	..	
3	1	...	...	...	4	2	....	....	2	2	8	2	....	3	2	5	1	6	4	4	5	..	
1	....	...	...	...	1	....	....	....	3	1	2	1	1	2	2	4	3	7	5	....	....	..	110
1	....	...	...	...	1	....	....	....	....	....	1	....	1	2	....	3	2	3	1	....	....	..	
....	....	...	...	...	....	....	....	....	3	1	1	1	....	....	2	1	1	4	4	....	....	..	
....	....	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	111
....	....	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
2	3	...	...	...	5	4	....	1	1	3	2	8	15	19	37	31	44	45	25	27	17	..	112
1	3	...	...	...	4	2	....	....	....	2	1	4	9	11	25	18	28	32	18	16	7	..	
1	....	...	...	...	1	2	....	1	1	1	1	4	6	8	12	13	16	13	7	11	10	..	
....	....	...	...	...	....	....	....	1	....	5	3	8	6	6	6	10	12	8	7	10	3	..	113
....	....	...	...	...	....	....	....	....	....	1	2	....	4	1	3	3	3	5	2	3	1	..	
....	....	...	...	...	....	....	....	1	....	4	1	8	2	5	3	7	9	3	5	7	2	..	
10	5	1	...	...	16	....	1	5	6	4	4	10	5	10	18	14	17	18	14	14	20	..	114
7	3	...	...	...	10	....	....	1	2	1	....	6	1	4	6	6	8	10	5	5	12	..	
3	2	1	...	...	6	....	1	4	4	3	4	4	4	6	12	8	9	8	9	9	8	..	
....	2	...	...	...	2	....	....	....	....	....	1	....	1	1	2	....	2	1	2	1	....	..	115
....	1	...	...	...	1	....	....	....	....	....	1	....	....	1	2	....	1	....	1	....	....	..	
....	1	...	...	...	1	....	....	....	....	....	....	....	1	....	....	....	1	1	1	1	....	..	
14	6	5	4	3	32	12	16	23	28	31	17	16	8	12	11	10	4	9	5	5	7	..	116
8	6	4	2	1	21	4	4	6	5	6	4	4	5	4	5	4	1	6	3	3	5	..	
6	....	1	2	2	11	8	12	17	23	25	13	12	3	8	6	6	3	3	2	2	2	..	
....	....	1	2	3	6	42	47	74	39	30	31	15	12	9	14	6	6	5	6	3	1	..	118
....	....	1	1	2	4	18	23	40	26	25	21	11	8	6	8	3	5	3	4	2	1	..	
....	....	...	1	1	2	24	24	34	13	5	10	4	4	3	6	3	1	2	2	1	....	..	
....	....	...	...	...	....	....	....	1	....	1	1	1	2	....	....	1	....	1	2	....	....	..	117
....	....	...	...	...	....	....	....	....	....	....	....	....	2	....	....	....	....	....	1	....	....	..	
....	....	...	...	...	....	....	....	1	....	1	1	1	....	....	....	1	....	1	1	....	....	..	
11	2	3	5	4	25	3	2	2	5	10	11	6	5	7	6	5	6	4	6	4	10	..	119
9	....	3	3	3	18	1	1	1	1	3	5	2	4	4	4	1	4	4	5	4	7	..	
2	2	...	2	1	7	2	1	1	4	7	6	4	1	3	2	4	2	...	1	....	3	..	
13	6	4	1	2	26	14	8	21	24	36	39	52	67	88	102	133	147	167	160	147	139	..	120
11	3	3	1	1	19	5	2	7	12	16	16	24	31	48	53	74	81	102	95	98	93	..	
2	3	1	...	1	7	9	6	14	12	20	23	28	36	40	49	59	66	65	65	49	46	..	
2	1	...	...	2	5	....	....	1	1	4	2	2	4	3	2	....	6	3	4	5	10	..	121
1	....	...	...	1	2	....	....	....	1	....	....	....	3	2	2	....	4	2	2	5	8	..	
1	1	...	...	1	3	....	....	1	....	4	2	2	1	1	....	....	2	1	2	....	2	..	
1	....	...	...	...	1	....	....	....	....	1	1	....	2	....	1	....	3	1	2	1	1	..	122
1	....	...	...	...	1	....	....	....	....	1	1	....	1	....	1	....	....	1	1	1	1	..	
....	....	...	...	...	....	....	....	....	....	....	....	....	1	....	....	....	3	....	1	....	....	..	
2	1	...	...	...	3	....	....	1	2	2	....	4	1	2	4	8	9	13	11	21	29	..	123
2	1	...	...	...	3	....	....	1	2	1	....	3	....	2	4	7	9	12	10	18	26	..	
....	....	...	...	...	....	....	....	....	....	1	....	1	1	....	....	1	....	1	1	3	3	..	
....	....	...	...	...	....	....	....	....	....	2	5	7	7	8	8	1	2	1	1	....	1	..	129
....	....	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	...	...	...	....	....	....	....	....	2	5	7	7	8	8	1	2	1	1	....	1	..	

Digitized by Google

Table III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1908.	Sex.	Total deaths, 1908.	Months of deaths, 1908. Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
127, 128, 130	Other diseases of uterus	Totals.	42	3	5	7	1	7	3	.....	6	2	3	3	2
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	42	3	5	7	1	7	3	.....	6	2	3	3	2
131	Ovarian tumor	Totals.	26	1	3	.....	1	3	1	5	2	3	4	2	1
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	26	1	3	.....	1	3	1	5	2	3	4	2	1
124, 126, 132, 133	Diseases of tubes	Totals.	27	4	2	3	2	3	3	2	4	2	2	.....	.....
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	27	4	2	3	2	3	3	2	4	2	2	.....	.....
	Other diseases of genito-urinary system	Totals.	108	14	8	13	4	8	11	9	10	9	6	6	10
		Males.	101	14	7	11	4	7	11	9	9	7	6	6	10
		Fem.	7	.....	1	2	.....	1	.....	.....	1	2	.....	.....	.....
137	Puerperal septicemia	Totals.	188	21	25	34	14	17	12	6	14	8	8	15	14
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	188	21	25	34	14	17	12	6	14	8	8	15	14
138	Puerperal convulsions	Totals	97	7	9	5	12	15	7	13	8	7	4	7	3
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	87	7	9	5	12	15	7	13	8	7	4	7	3
134, 136, 139, 141	Other causes incident to child birth	Totals.	155	10	20	19	14	11	12	17	11	13	8	14	6
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	155	10	20	19	14	11	12	17	11	13	8	14	6
142	Gangrene	Totals.	133	12	9	12	15	17	14	8	9	9	12	6	10
		Males.	88	5	5	8	11	12	8	6	7	6	9	3	8
		Fem.	45	7	4	4	4	5	6	2	2	3	3	3	2
143	Carbuncle	Totals.	4	.....	.....	.....	2	.....	.....	.....	.....	1	.....	.....	1
		Males.	4	.....	.....	.....	2	.....	.....	.....	.....	1	.....	.....	1
		Fem.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
144	Abscess	Totals.	40	4	3	4	1	3	.....	1	4	1	5	6	8
		Males.	21	2	.....	3	1	2	.....	1	3	.....	2	2	5
		Fem.	19	2	3	1	.....	1	.....	.....	1	1	3	4	3
145	Other diseases of skin	Totals.	25	3	2	.....	1	3	2	2	1	2	5	1	3
		Males.	13	1	2	.....	1	.....	2	1	1	.....	2	1	2
		Fem.	12	2	.....	.....	.....	3	.....	1	.....	2	3	.....	1
146	Diseases of bones	Totals.	78	11	6	11	5	5	7	2	6	5	9	4	7
		Males.	43	4	3	5	3	4	4	1	2	3	7	2	5
		Fem.	35	7	3	6	2	1	3	1	4	2	2	2	2
147	Diseases of joints	Totals.	5	1	2	1	.....	.....	.....	.....	.....	.....	.....	.....	1
		Males.	4	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
		Fem.	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
148, 149	Other diseases of locomotor system	Totals.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
150	Hydrocephalus	Totals.	32	2	3	3	1	4	.....	7	1	5	1	2	3
		Males.	19	.....	.....	1	1	4	.....	5	.....	4	1	1	2
		Fem.	13	2	3	2	.....	.....	.....	2	1	1	.....	1	1
	Congenital malformation of heart (cyanosis)	Totals.	299	27	38	32	28	26	22	20	23	21	20	24	18
		Males.	175	14	26	20	15	14	11	9	18	10	15	11	12
		Fem.	124	13	12	12	13	12	11	11	5	11	5	13	6
	Other congenital malformations	Totals.	155	19	9	21	12	10	13	14	12	12	13	7	13
		Males.	85	10	7	12	7	6	8	6	7	6	6	4	6
		Fem.	70	9	2	9	5	4	5	8	5	6	7	3	7

Digitized by Google

ages, and sex, during the year 1908. (Stillbirths excluded.)

Ages in years under five.					Ages in five year periods.																	Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 30.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
....	....	....	....	....	....	....	....	4	6	4	7	5	4	4	2	....	1	2	1	1	1	..	127,
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	128,
....	....	....	....	....	....	....	....	4	6	4	7	5	4	4	2	....	1	2	1	1	1	..	130
....	....	....	....	....	....	....	....	3	1	2	2	2	1	2	2	4	....	....	5	2	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	131
....	....	....	....	....	....	....	....	3	1	2	2	2	1	2	2	4	....	....	5	2	....	..	
....	....	....	....	....	....	....	....	3	5	5	3	5	4	....	....	....	....	....	1	1	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	3	5	5	3	5	4	....	....	....	....	....	1	1	....	..	124,
																							126,
....	1	....	....	....	1	....	....	....	2	1	....	....	1	2	2	3	11	15	19	17	24	..	132,
....	1	....	....	....	1	....	....	....	....	1	....	....	1	....	2	2	11	15	19	17	32	..	133
....	....	....	....	....	....	....	....	....	2	....	....	....	....	2	....	1	....	....	....	....	2	..	
....	....	....	....	....	....	....	....	22	51	38	31	26	14	5	....	1	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	137
....	....	....	....	....	....	....	....	22	51	38	31	26	14	5	....	1	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	10	30	26	16	12	3	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	138
....	....	....	....	....	....	....	....	10	30	26	16	12	3	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	9	26	39	23	35	19	4	....	....	....	....	....	....	....	..	134,
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	136,
....	....	....	....	....	....	....	....	9	26	39	23	35	19	4	....	....	....	....	....	....	....	..	139,
																							141
3	....	....	....	....	3	....	....	1	....	....	....	2	....	3	4	4	6	19	23	27	41	..	
....	....	....	....	....	....	....	....	1	....	....	....	1	....	2	3	3	5	11	18	18	26	..	142
3	....	....	....	....	3	....	....	....	....	....	....	1	....	1	1	1	1	8	5	9	15	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	2	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	2	....	..	143
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
3	3	1	....	1	8	1	1	1	1	4	2	3	3	2	....	2	1	4	3	2	2	..	
2	3	....	....	....	5	....	1	1	....	1	1	....	2	....	....	2	1	1	2	2	2	..	144
1	....	1	....	1	3	1	....	....	1	3	1	3	1	2	....	....	....	3	1	....	....	..	
12	....	....	....	1	13	....	....	....	....	....	....	2	2	1	....	1	....	....	4	....	2	..	
9	....	....	....	1	10	....	....	....	....	....	....	....	1	1	....	....	....	....	1	....	....	..	145
3	....	....	....	....	3	....	....	....	....	....	....	2	1	....	....	1	....	....	3	....	2	..	
21	9	3	3	1	37	5	3	5	1	1	1	1	1	1	3	4	3	5	6	1	....	..	
12	5	2	....	1	20	2	3	4	1	....	1	....	....	1	1	3	1	2	3	1	....	..	146
9	4	1	3	....	17	3	....	1	....	1	....	1	1	....	2	1	2	3	3	....	....	..	
1	....	....	....	....	1	....	2	....	....	....	....	....	....	....	....	1	....	....	....	1	....	..	
1	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	1	....	....	....	1	....	..	147
....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	148
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	149
24	4	1	1	....	30	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
12	4	....	1	....	17	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
12	....	1	....	....	13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
294	4	....	....	....	298	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
172	2	....	....	....	174	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	150
122	2	....	....	....	124	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
153	2	....	....	....	155	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
85	....	....	....	....	85	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
68	2	....	....	....	70	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	

Digitized by Google

Table III.—Continued.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1908.	Sex.	Total deaths, 1908.	Months of deaths, 1908.											
				Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
151, 152, 153	Premature birth.....	Totals.	975	79	90	94	80	93	66	98	73	78	75	71	78
		Males.	541	41	44	54	42	51	39	56	47	49	41	40	37
		Fem..	434	38	46	40	38	42	27	42	26	29	34	31	41
	Congenital debility...	Totals.	1,410	111	114	145	139	138	99	102	122	126	138	98	78
		Males.	817	66	68	85	86	73	55	58	77	66	78	58	47
		Fem..	593	45	46	60	53	65	44	44	45	60	60	40	31
154	Old age.....	Totals.	1,627	170	165	155	147	121	130	117	84	128	146	138	126
		Males.	793	86	69	81	76	54	66	65	42	57	71	67	59
		Fem..	834	84	96	74	71	57	64	52	42	71	75	71	67
155	Suicide by poison....	Totals.	143	15	8	11	11	11	13	11	12	18	14	8	11
		Males.	90	7	5	6	10	6	9	7	7	11	10	4	8
		Fem..	53	8	3	5	1	5	4	4	5	7	4	4	3
156	Suicide by asphyxia..	Totals.	13	1	1	1	2	1	1	1	.....	2	.....	2	1
		Males.	10	1	.....	1	2	1	.....	1	.....	1	.....	2	1
		Fem..	3	.....	1	.....	.....	.....	1	.....	.....	1	.....	.....	.....
157	Suicide by hanging...	Totals.	76	6	4	6	6	11	5	4	5	11	5	7	6
		Males.	66	6	4	6	5	7	4	4	5	10	5	6	4
		Fem..	10	.....	.....	.....	1	4	1	.....	.....	1	.....	1	2
158	Suicide by drowning..	Totals.	18	2	.....	.....	2	1	.....	3	1	2	5	2	.....
		Males.	6	.....	.....	.....	1	.....	.....	1	.....	.....	4	.....	.....
		Fem..	12	2	.....	.....	1	1	.....	2	1	2	1	2	.....
159	Suicide by firearms..	Totals.	98	5	4	9	10	9	10	6	7	13	9	7	9
		Males.	90	5	3	9	10	7	9	6	7	11	8	7	8
		Fem..	8	.....	1	.....	.....	2	1	.....	.....	2	1	.....	1
160	Suicide by cutting instruments.....	Totals.	24	3	2	1	2	1	1	1	2	5	2	3	1
		Males.	21	3	2	1	1	1	1	1	1	5	1	3	1
		Fem..	3	.....	.....	.....	1	.....	.....	.....	1	.....	1	.....	.....
161	Suicide by jumping from high places...	Totals.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Males.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
162	Suicide by crushing..	Totals.	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
		Males.	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
		Fem..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
163	Suicide by other or unspecified means..	Totals.	13	.....	1	5	.....	2	2	.....	.....	2	.....	1	.....
		Males.	12	.....	1	4	.....	2	2	.....	.....	2	.....	1	.....
		Fem..	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
164, 165	Fractures and dislocations.....	Totals.	176	22	20	10	12	13	11	12	15	15	18	12	16
		Males.	97	15	6	4	7	11	7	8	11	7	9	6	6
		Fem..	79	7	14	6	5	2	4	4	4	8	9	6	10
167	Burns and scalds....	Totals.	194	16	18	16	9	5	7	14	21	17	36	16	19
		Males.	87	6	9	11	3	1	3	7	8	7	15	7	10
		Fem..	107	10	9	5	6	4	4	7	13	10	21	9	9
169	Heat and sunstroke..	Totals.	31	.....	.....	.....	.....	.....	6	17	8	.....	.....	.....	.....
		Males.	23	.....	.....	.....	.....	.....	4	13	6	.....	.....	.....	.....
		Fem..	8	.....	.....	.....	.....	.....	2	4	2	.....	.....	.....	.....
170	Cold and freezing....	Totals.	42	9	8	6	4	1	1	.....	.....	3	1	2	7
		Males.	34	8	7	6	3	1	1	.....	.....	2	.....	1	5
		Fem..	8	1	1	.....	1	.....	.....	.....	.....	1	1	1	2
(171)	Lightning.....	Totals.	22	.....	.....	3	.....	8	3	5	3	.....	.....	.....	.....
		Males.	16	.....	.....	1	.....	6	2	5	2	.....	.....	.....	.....
		Fem..	6	.....	.....	2	.....	2	1	.....	1	.....	.....	.....	.....
172	Drowning.....	Totals.	361	11	3	12	21	37	62	101	51	26	15	11	11
		Males.	322	10	3	11	17	35	55	90	46	22	15	9	9
		Fem..	39	1	.....	1	4	2	7	11	5	4	.....	2	2

Digitized by Google

ages and sex, during the year 1908. (Stillbirths excluded.)

Ages in years.					Ages in five year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
975	....	....	....	....	975	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	151, 152, 153
541	....	....	....	....	541	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
434	....	....	....	....	434	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
1410	....	....	....	....	1410	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
817	....	....	....	....	817	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
593	....	....	....	....	593	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	71	163	344	1048	1	154
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	30	75	179	508	1	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	41	88	165	540	..	
....	....	....	....	....	....	....	....	9	18	12	14	18	15	9	14	10	11	3	2	5	2	1	155
....	....	....	....	....	....	....	....	4	7	8	8	13	9	7	8	9	8	3	2	3	1	..	
....	....	....	....	....	....	....	....	5	11	4	6	5	6	2	6	1	3	....	....	2	1	1	
....	....	....	....	....	....	....	....	....	....	1	....	....	1	4	2	1	1	....	1	2	....	..	156
....	....	....	....	....	....	....	....	....	....	1	....	....	1	3	2	1	1	....	....	1	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	1	....	..	
....	....	....	....	....	....	....	....	1	2	4	1	5	5	9	10	15	7	6	4	5	2	..	157
....	....	....	....	....	....	....	....	1	2	3	1	5	4	8	9	11	6	6	3	5	2	..	
....	....	....	....	....	....	....	....	....	....	1	....	....	1	1	1	4	1	....	1	....	....	..	
....	....	....	....	....	....	....	....	1	1	2	3	4	1	....	2	1	....	2	1	....	....	..	158
....	....	....	....	....	....	....	....	....	1	2	1	1	....	....	....	1	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	1	....	....	2	3	1	....	2	....	....	2	1	....	....	..	
....	....	....	....	....	....	....	....	2	7	7	8	8	16	10	11	11	6	2	4	2	3	1	159
....	....	....	....	....	....	....	....	1	6	7	6	8	13	10	11	11	5	2	4	2	3	1	
....	....	....	....	....	....	....	....	1	1	....	2	....	3	....	....	....	1	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	3	....	4	3	7	....	4	1	....	2	....	....	..	160
....	....	....	....	....	....	....	....	....	....	2	....	3	3	7	....	4	....	....	2	....	....	..	
....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	1	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	161
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..	162
....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
....	....	....	....	....	....	....	....	1	1	1	....	2	1	4	....	1	1	....	1	....	....	..	163
....	....	....	....	....	....	....	....	1	1	1	....	2	1	3	....	1	1	....	1	....	....	..	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	..	
2	....	1	1	....	4	1	4	6	10	8	14	3	9	9	5	4	7	6	16	18	52	..	164, 165
1	....	....	1	....	2	....	4	6	10	7	14	3	8	8	2	3	6	3	5	3	13	..	
1	....	1	....	....	2	1	....	....	....	1	....	....	1	1	3	1	1	3	11	15	39	..	
17	17	21	25	14	94	17	8	3	10	9	10	7	4	5	5	3	2	6	5	2	3	1	167
8	12	11	10	5	46	4	....	2	6	3	4	2	3	4	3	1	1	4	2	....	1	1	
9	5	10	15	9	48	13	8	1	4	6	6	5	1	1	2	2	1	2	3	2	2	..	
3	1	....	2	1	7	....	....	1	1	1	3	....	2	1	4	1	1	4	2	1	2	..	169
2	1	....	1	....	4	....	....	1	1	1	3	....	1	1	4	1	1	3	1	....	1	..	
1	....	....	1	1	3	....	....	....	....	....	....	....	1	....	....	....	....	1	1	1	1	..	
1	....	....	....	....	1	....	3	1	1	3	3	4	1	6	2	4	2	4	....	5	1	1	170
1	....	....	....	....	1	....	3	1	....	3	3	3	1	5	1	2	2	3	....	4	1	1	
....	....	....	....	....	....	....	....	....	1	....	....	1	....	1	1	2	....	1	....	1	....	..	
....	....	....	....	....	....	1	4	5	1	2	....	2	2	2	....	1	....	1	....	....	....	1	(171)
....	....	....	....	....	....	1	2	3	1	1	....	1	2	2	....	1	....	1	....	....	....	1	
....	....	....	....	....	....	....	2	2	....	1	....	1	....	....	....	....	....	....	....	....	....	..	
3	12	4	6	8	33	28	40	70	39	25	25	23	13	20	11	8	8	8	6	2	....	2	172
1	9	1	6	7	24	25	36	68	35	22	21	21	13	16	10	8	7	6	6	2	....	2	
2	3	3	....	1	9	3	4	2	4	3	4	2	....	4	1	....	1	2	....	....	....	..	

Digitized by Google

Table III.—Concluded.—Causes of death in Michigan, by months,

Classification No.	Causes of death, 1908.	Sex.	Total deaths, 1908.	Months of deaths, 1908. Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
174	Inhalation of poisonous gases	Totals.	23	2	1	1	1	3	2	1	2	1	.....	4	5
		Males.	13	2	1	1	1	2	.....	.....	2	.....	.....	2	2
		Fem..	10	.....	.....	.....	.....	1	2	1	.....	1	.....	2	3
175	Other accidental poisonings	Totals.	102	6	3	11	5	9	12	8	8	14	13	6	7
		Males.	65	5	2	8	4	7	7	5	7	9	5	4	2
		Fem..	37	1	1	3	1	2	5	3	1	5	8	2	5
	Accidental gunshot wounds	Totals.	83	6	4	3	5	6	.....	8	12	5	8	11	1
		Males.	76	6	3	3	5	5	.....	8	10	5	7	10	1
		Fem..	7	.....	1	.....	.....	1	.....	.....	2	.....	1	1	1
	Injuries by machinery	Totals.	41	3	6	4	3	3	5	3	3	2	4	2	3
		Males.	40	3	6	4	3	3	5	3	3	2	4	1	3
		Fem..	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
	Injuries in mines and quarries	Totals.	129	9	9	15	10	14	14	8	6	10	11	11	12
		Males.	127	9	9	15	9	14	13	8	6	10	11	11	12
		Fem..	2	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....
166	Railroad accidents and injuries	Totals.	263	19	27	17	23	16	19	31	21	22	28	19	21
		Males.	251	18	24	16	22	16	19	31	21	21	26	18	19
		Fem..	12	1	3	1	1	.....	.....	.....	.....	1	2	1	2
	Injuries by vehicles and horses	Totals.	115	4	2	7	9	8	13	12	21	11	14	9	5
		Males.	101	4	2	6	9	7	13	8	16	10	13	9	4
		Fem..	14	.....	.....	1	.....	1	.....	4	5	1	1	.....	1
	Injuries by electric cars	Totals.	78	3	4	3	12	3	3	8	10	9	8	8	7
		Males.	71	1	4	3	12	2	3	6	10	9	7	7	7
		Fem..	7	2	.....	.....	.....	1	.....	2	.....	.....	1	1	.....
	Other accidental injuries	Totals.	321	21	29	32	27	16	27	27	26	30	41	26	19
		Males.	243	13	21	25	21	13	23	18	22	21	31	21	14
		Fem..	78	8	8	7	6	3	4	9	4	9	10	5	5
176	Suffocation	Totals.	58	6	8	7	9	7	3	1	1	5	1	6	4
		Males.	40	3	7	6	5	5	1	1	1	4	.....	4	3
		Fem..	18	3	1	1	4	2	2	.....	.....	1	1	2	1
	Injuries at birth	Totals.	62	3	4	3	7	8	5	5	6	4	8	5	4
		Males.	39	1	2	2	4	4	5	4	3	2	7	3	2
		Fem..	23	2	2	1	3	4	.....	1	3	2	1	2	2
(176)	Homicide	Totals.	66	5	2	4	2	5	9	6	7	12	8	4	2
		Males.	39	3	1	4	1	4	6	2	2	8	6	1	1
		Fem..	27	2	1	.....	1	1	3	4	5	4	2	3	1
177	"Dropsy"	Totals.	98	4	5	10	12	11	6	8	9	7	12	7	7
		Males.	49	2	3	4	6	3	3	7	7	3	5	3	3
		Fem..	49	2	2	6	6	8	3	1	2	4	7	4	4
	"Heart failure"	Totals.	129	13	10	11	18	11	7	11	12	14	7	7	8
		Males.	84	9	5	5	12	9	5	9	8	9	7	2	4
		Fem..	45	4	5	6	6	2	2	2	4	5	.....	5	4
178, 179	Other ill-defined diseases	Totals.	378	25	30	25	24	27	26	17	43	41	61	29	30
		Males.	190	12	11	10	11	13	14	9	20	26	33	14	17
		Fem..	188	13	19	15	13	14	12	8	23	15	28	15	13
	Unknown (or unspecified)	Totals.	155	11	12	13	9	21	11	11	16	19	11	11	10
		Males.	95	5	7	8	5	15	8	7	12	10	7	5	6
		Fem..	60	6	5	5	4	6	3	4	4	9	4	6	4

Digitized by Google

ages, and sex, during the year 1908. (Stillbirths excluded.)

Ages in years under five.					Ages in five year periods.																		Classification No.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 30.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
....	....	2	...	1	3	1	....	1	2	1	4	....	....	1	2	....	2	2	2	2	....	..	
....	....	....	...	...	....	1	....	1	2	....	1	....	....	1	2	....	2	1	1	1	....	..	174
....	....	2	...	1	3	....	....	....	....	1	3	....	....	....	....	....	....	1	1	1	....	..	
18	23	13	2	...	56	....	2	3	2	3	4	3	5	5	4	3	3	1	4	1	3	..	
12	14	7	1	...	34	....	....	1	1	2	3	2	4	5	4	2	2	1	3	1	....	..	175
6	9	6	1	...	22	....	2	2	1	1	1	1	1	....	....	1	1	....	1	....	3	..	
1	1	1	1	...	4	6	14	18	6	6	9	5	1	3	5	3	1	....	1	1	....	..	
....	....	....	1	...	1	6	14	17	6	6	9	4	1	2	4	3	1	....	1	1	....	..	
1	1	1	...	...	3	....	....	1	....	....	....	1	....	1	1	....	....	....	....	....	....	..	
....	....	....	...	...	....	....	2	5	1	8	3	5	6	3	3	4	1	....	....	....	....	..	
....	....	....	...	...	....	....	2	5	1	8	3	5	5	3	3	4	1	....	....	....	....	..	
....	....	....	...	...	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	..	
1	....	....	...	...	1	....	....	15	33	28	14	19	8	5	3	3	....	....	....	....	....	..	
1	....	....	...	...	1	....	....	15	32	28	13	19	8	5	3	3	....	....	....	....	....	..	
....	....	....	...	...	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	..	
1	....	....	...	1	2	2	10	19	27	39	25	23	20	15	16	15	16	13	6	8	3	4	
1	....	....	...	1	2	2	10	19	27	38	24	23	18	14	14	13	16	11	6	8	2	4	
....	....	....	...	...	....	....	....	....	....	1	1	....	2	1	2	2	....	2	....	....	1	..	166
1	2	3	2	2	10	7	4	5	6	3	6	3	3	12	5	15	11	9	8	4	4	..	
1	1	3	1	1	7	6	4	5	6	3	6	3	3	11	3	14	7	8	7	4	4	..	
....	1	...	1	1	3	1	....	....	....	....	....	....	....	1	2	1	4	1	1	....	....	..	
....	....	....	2	...	2	1	2	3	9	2	9	5	8	10	5	4	4	3	3	5	1	2	
....	....	....	1	...	1	1	2	2	9	2	8	4	8	10	4	3	4	2	3	5	1	2	
....	....	....	1	...	1	....	....	1	....	....	1	1	....	....	1	1	....	1	....	....	....	..	
23	9	6	6	3	47	9	11	11	17	19	15	16	21	18	21	14	15	14	14	22	34	3	
10	5	3	5	3	26	8	9	10	16	15	14	15	16	16	18	13	12	11	12	12	17	3	
13	4	3	1	...	21	1	2	1	1	4	1	1	5	2	3	1	3	3	2	10	17	..	
35	2	1	2	1	41	....	1	....	2	....	3	1	1	1	2	1	2	1	1	....	1	..	
25	....	1	1	...	27	....	1	....	2	....	3	1	....	1	1	1	1	1	1	....	....	..	
10	2	...	1	1	14	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....	1	..	176
62	....	....	....	....	62	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
39	....	....	....	....	39	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
23	....	....	....	....	23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	
4	1	....	....	....	5	3	2	2	8	6	9	7	7	8	1	4	1	....	1	....	....	2	
1	....	....	....	....	1	2	1	....	7	2	7	5	4	4	1	2	1	....	....	....	....	2	(176)
3	1	....	....	....	4	1	1	2	1	4	2	2	3	4	....	2	....	....	1	....	....	..	
1	1	....	....	....	2	....	2	1	2	....	1	4	3	4	4	5	10	15	11	16	18	..	
....	1	....	....	....	1	....	1	1	1	....	....	2	2	4	....	3	5	5	7	5	12	..	177
1	....	....	....	....	1	....	1	....	1	....	1	2	1	....	4	2	5	10	4	11	6	..	
9	....	....	1	...	10	1	1	1	3	1	4	4	3	6	8	12	17	21	15	10	12	..	
7	....	....	1	...	8	1	....	1	1	1	2	2	1	5	5	9	11	18	8	4	7	..	
2	....	....	....	....	2	....	1	....	2	....	2	2	2	1	3	3	6	3	7	6	5	..	
191	39	4	4	1	239	8	4	6	3	4	2	3	14	4	14	14	20	11	10	9	11	2	
96	20	2	...	...	118	4	3	....	3	1	....	1	5	3	8	7	12	6	5	6	6	2	178,
95	19	2	4	1	121	4	1	6	....	3	2	2	9	1	6	7	8	5	5	3	5	..	179
83	5	3	3	...	94	....	4	4	2	2	3	1	2	7	6	2	8	2	5	8	5	..	
49	4	1	2	...	56	....	1	4	2	....	3	1	....	3	6	2	7	1	4	4	1	..	
34	1	2	1	...	38	....	3	....	....	2	....	....	2	4	....	....	1	1	1	4	4	..	

Digitized by Google

Table IV.—Causes of death in Michigan, by counties.

Classification No.	Causes of death, 1908.	State.	Counties—Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Bensie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
	ALL CAUSES	36,761	70	104	582	307	221	120	74	260	811	157	743	395	749	293	239	228
	I. General Diseases.																	
	(*A. Epidemic diseases.*)																	
1	Typhoid fever	684	...	1	6	10	4	1	...	4	27	5	11	4	11	5	2	3
	Typho-malarial fever	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Malarial fever	38	...	...	...	...	3	...	...	1	2	...	3	...	...	...	...	...
5	Smallpox	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Measles	121	...	...	...	...	...	...	...	...	...	6	1	1	...	...	1	...
7	Scarlet fever	194	...	2	2	1	...	...	...	...	14	...	1	...	...	...	1	4
8	Whooping cough	305	...	5	10	1	3	2	...	1	5	1	9	2	5	1	4	3
9	Diphtheria	286	6	3	1	11	1	4	1	1	6	...	1	...	1	1	...	3
	Croup	26	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
	Membranous croup	31	...	...	1	1	...	...	...	...	1	...	1	...	...	...	...	2
10	Influenza	633	2	...	14	2	9	1	...	4	7	3	16	19	20	3	3	3
13	Cholera nostras	40	...	...	...	...	...	1	...	...	...	1	2	...	...	...	1	2
14	Dysentery	192	...	...	1	2	...	...	1	1	4	...	2	...	3	4	2	...
18	Erysipelas	99	...	1	1	2	...	...	...	1	3	1	1	2	1	...	1	1
19	Chicken pox	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	German measles	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mumps	3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
	Other epidemic diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(*B. Other general diseases.*)																	
20	Septicemia	189	...	...	1	3	...	...	1	2	1	...	5	3	3	...	2	...
27	Tuberculosis of lungs	2,249	2	3	19	21	7	5	7	9	51	6	41	18	35	19	16	10
26	Tuberculosis of larynx	27	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...
28	Tuberculous meningitis	137	...	...	...	1	...	...	...	...	2	...	2	2	5	...	3	1
29	Abdominal tuberculosis	141	1	...	3	...	1	...	1	...	1	...	5	1	3	...	2	1
30	Pott's disease	34	...	1	...	...	...	...	...	1	...	...	1	...	1	...	...	...
31	Tuberculous abscess	6	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
32	White swelling	11	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
33	Tuberculosis of other organs	45	...	...	...	...	1	...	...	...	...	...	2	...	1	1	...	...
34	General tuberculosis	50	...	...	...	...	1	...	...	3	1	1	1	1	1	...	...	...
35	Scrofula	6	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
36–38	Venereal diseases	118	...	...	...	1	1	...	1	...	...	2	...	...	...	...	...	...
39	Cancer of mouth	77	...	...	...	1	...	...	...	...	2	...	...	1	...	1	...	2

Digitized by Google

during the year 1908. (Stillbirths excluded.)

to Keweenaw.																											
Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
284	132	300	44	441	258	468	260	652	83	290	460	384	407	1041	395	595	465	122	185	275	754	912	131	2086	107	
11	4	1	1	20	3	5	7	13	3	7	10	9	5	11	8	20	4	3	3	4	7	16	4	50	1	1
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	
...	1	1	...	...	...	3	...	...	...	...	...	...	1	...	...	...	2	...	...	...	1	1	...	3	...	4
...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	5
1	...	...	...	4	1	...	1	...	...	2	...	...	...	25	1	...	...	...	...	...	2	...	...	11	8	6
...	...	...	...	2	...	...	...	...	...	5	5	1	...	11	...	3	2	...	3	3	3	1	...	10	...	7
...	1	2	...	3	4	1	3	2	2	2	3	7	2	...	6	2	2	1	...	2	2	6	4	5	...	8
4	...	...	...	8	11	2	1	1	...	11	1	2	...	14	5	6	2	...	6	1	1	1	...	8	...	
...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	1	...	...	...	...	1	1	...	...	...	2	9
...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	1	6	...	
6	4	9	1	13	1	10	5	11	2	...	8	16	11	6	5	13	14	2	1	5	26	17	1	28	...	10
...	...	...	1	...	...	...	...	1	...	5	...	...	...	2	...	1	...	...	...	2	...	...	...	2	...	13
2	1	1	...	1	...	9	...	1	...	3	12	1	...	...	4	1	5	2	1	3	1	14	...	5	1	14
1	...	2	...	1	1	2	...	3	...	1	1	2	2	4	1	1	1	...	1	...	1	5	1	3	1	18
...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
1	...	1	2	...	1	2	...	7	1	1	1	4	3	8	3	2	5	...	1	1	4	7	2	6	...	20
21	5	10	1	25	13	28	20	31	5	24	41	20	25	80	31	34	20	7	14	21	43	47	6	144	6	27
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	2	...	...	...	1	1	...	2	26
...	...	...	...	1	3	...	2	4	...	...	2	...	...	12	4	...	1	1	...	2	...	1	...	12	...	28
3	...	1	...	5	...	2	...	5	...	1	...	4	3	5	1	4	1	...	...	1	1	2	1	8	...	29
2	2	...	...	1	1	1	...	2	...	...	3	1	1	...	...	...	...	1	...	...	...	1	...	2	...	30
...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	31
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	32
...	...	1	1	...	...	...	...	1	1	1	...	3	1	1	...	...	1	...	...	1	...	...	...	3	...	33
...	...	...	...	3	1	...	...	...	...	...	...	...	...	3	...	...	2	...	...	...	2	...	...	5	...	34
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	35
1	...	...	...	...	...	...	...	...	...	...	2	...	...	1	...	2	1	...	4	1	1	1	1	2	1	36–38
1	1	2	...	3	...	1	1	2	...	1	1	...	1	1	...	3	1	1	1	...	1	1	...	5	...	39

Digitized by Google

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1908.	State.	Counties—Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
40	Cancer of stomach and liver	759	...	2	13	3	2	2	...	15	11	3	9	17	24	7	8	6
41	Cancer of intestines	220	1	...	2	...	2	...	...	1	7	1	10	3	5	4	...	...
42	Cancer of genital organs	285	...	...	5	5	...	...	...	2	3	...	8	4	7	2	4	...
43	Cancer of breast	170	1	...	9	...	1	...	...	...	1	1	6	5	3	3	...	...
44	Cancer of skin	123	...	...	2	4	...	1	...	2	4	...	1	3	5	...	1	...
45	Cancer of other organs	287	...	...	5	1	...	...	...	2	5	...	3	5	8	3	2	1
46	Tumors	36	...	...	...	2	...	...	...	1	...	1	1	...	...	...	...	...
47, 48	Rheumatism	245	2	1	4	2	1	1	1	4	11	...	2	3	4	...	1	...
50	Diabetes	359	1	1	6	1	...	...	1	6	4	1	8	4	11	5	2	4
53, 54	Anemia	304	...	...	6	2	2	1	...	4	7	...	3	5	9	3	3	...
56	Alcoholism	66	...	...	...	1	1	...	...	...	...	1	2	1	...	...	...	...
57–59	Chronic poisonings	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
55, etc.	Other general diseases	125	...	...	...	...	1	2	...	1	3	1	5	1	2	1	2	1
	II. Diseases of Nervous System.																	
60	Encephalitis	45	...	...	...	2	...	...	1	...	...	...	1	...	1	...	...	1
61	Meningitis	480	...	1	6	3	8	2	...	3	19	3	5	3	7	...	3	6
62	Locomotor ataxia	69	...	...	3	...	...	...	...	...	1	...	2	2	1	2	...	...
63	Other diseases of spinal cord	125	...	...	3	...	1	...	...	1	7	1	3	...	3	...	...	1
64	Apoplexy	1,669	4	...	57	2	11	5	...	19	36	6	35	31	38	21	6	6
65	Softening of brain	91	...	...	1	2	1	...	...	2	4	1	1	2	2	2	...	1
66	Paralysis	870	1	...	6	7	2	1	2	8	11	6	38	15	29	12	10	5
67	General paralysis of insane	129	...	...	3	...	...	...	...	...	1	...	1	2	1	1	...	...
68	Other forms of mental disease	62	1	...	2	...	1	...	...	...	2	...	2	...	1	...	...	1
(74)	Other diseases of the brain	104	...	...	...	2	3	...	...	...	2	1	...	...	2	1	...	...
69	Epilepsy	144	...	...	3	2	...	1	1	2	...	...	2	1	2	1	1	3
70, 71	Convulsions	454	1	...	4	11	2	...	3	1	6	3	2	...	1	...	3	3
72	Tetanus	34	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	1
73–76	Other diseases of nervous system	76	...	...	2	...	...	...	...	...	...	...	1	...	...	...	1	...
	III. Diseases of Circulatory System.																	
77	Pericarditis	28	...	...	...	...	1	...	...	...	...	...	2	...	...	...	...	...
78	Endocarditis	192	...	...	2	1	...	...	...	3	2	...	5	...	6	5	2	1
79	Heart disease	3,768	1	10	78	27	22	16	1	48	75	11	101	47	108	24	20	24
80	Angina pectoris	214	...	...	2	1	1	...	...	...	3	...	7	7	8	3	2	...
81	Diseases of arteries	319	...	...	3	1	...	...	...	8	6	...	13	4	14	6	1	1
82	Embolism and thrombosis	77	...	...	1	...	...	...	...	1	1	1	1	...	1	...	2	...

Digitized by Google

by counties, during the year 1906. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
2	2	10	1	2	6	17	11	8	1	1	3	8	9	23	4	15	8	...	1	10	14	21	1	46	1	40
...	...	2	...	1	1	6	2	4	...	...	2	1	2	6	3	5	2	...	1	...	7	5	...	20	...	41
...	3	2	...	1	...	7	1	3	1	...	5	3	5	3	2	6	4	1	...	3	11	8	2	18	...	42
2	1	2	...	...	2	4	1	10	...	1	4	1	5	1	...	2	2	...	...	...	3	2	...	9	1	43
1	...	2	1	1	...	2	2	5	1	...	...	1	4	...	1	3	2	...	...	...	5	2	1	12	...	44
1	...	2	...	3	3	5	1	9	2	1	4	1	6	6	5	3	4	2	3	...	3	7	1	22	1	45
...	...	...	...	...	...	1	...	1	...	...	...	...	3	1	...	1	1	...	...	...	...	...	...	4	...	46
3	2	2	1	3	1	3	2	1	1	...	5	3	4	11	5	2	2	...	2	2	5	7	...	13	...	47, 48
1	1	11	...	3	...	3	3	10	1	1	6	7	8	5	5	6	4	...	1	3	9	6	1	22	...	50
2	1	2	...	1	2	9	...	2	...	1	7	6	3	7	3	4	3	...	...	1	17	7	2	13	1	53, 54
1	...	...	1	6	...	...	...	...	1	1	...	...	1	3	...	1	1	...	1	...	3	...	...	4	...	56
...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	57–59
...	1	...	...	...	...	2	1	2	...	1	...	1	...	5	1	2	...	1	...	2	1	5	...	9	...	55, etc.
...	1	...	...	...	...	...	2	...	...	...	...	...	...	1	2	2	...	...	...	...	...	...	...	7	...	60
6	...	4	...	7	4	1	2	9	...	7	4	9	6	24	5	6	9	...	3	2	5	7	2	26	...	61
...	...	...	1	1	...	...	...	4	...	...	1	...	1	...	...	...	...	...	...	...	1	4	...	8	...	62
...	...	1	...	2	...	4	2	6	1	...	2	1	2	2	1	1	5	...	...	1	...	3	1	6	...	63
12	6	12	1	7	5	32	5	43	2	5	28	20	20	24	11	25	32	3	2	15	57	74	13	98	1	64
...	...	3	...	...	...	1	...	2	...	...	1	...	...	1	1	2	1	...	...	...	2	22	...	8	...	65
1	4	14	1	4	1	27	6	21	2	...	14	7	22	2	4	23	24	3	...	4	25	8	3	38	...	66
...	...	...	...	1	...	...	...	1	...	...	18	1	...	1	1	...	6	...	...	...	...	26	...	2	...	67
...	...	...	1	...	...	...	...	...	...	...	6	...	...	...	...	...	1	...	...	...	...	4	...	1	...	68
...	...	...	...	4	...	1	...	...	1	...	6	...	1	4	3	1	4	...	...	1	2	1	1	3	1	(74)
...	1	2	...	1	...	2	3	2	2	...	10	1	3	...	1	5	2	...	...	...	7	14	...	4	...	69
5	1	3	1	3	5	1	...	1	1	6	1	3	1	21	13	4	...	1	...	3	7	3	1	10	12	70, 71
...	1	...	...	...	1	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	1	...	72
1	1	2	...	1	...	2	...	1	1	...	2	4	1	2	...	...	1	...	...	...	5	1	...	2	1	73, 76
...	...	...	...	3	...	...	...	...	...	...	1	1	1	2	...	1	...	...	...	...	...	1	1	1	...	77
...	...	1	2	3	1	3	1	1	...	...	3	1	1	5	1	1	3	1	2	...	4	6	...	9	...	78
16	10	49	1	17	10	55	14	76	6	4	36	47	54	48	29	87	58	11	5	26	99	132	9	262	1	79
...	1	4	...	...	1	2	...	7	...	...	3	10	3	7	5	9	7	2	...	2	4	4	...	9	...	80
...	1	3	1	2	...	2	1	5	...	...	13	...	10	...	2	7	2	1	1	3	12	16	...	29	...	81
...	1	1	...	...	...	1	2	3	...	...	...	...	...	...	...	3	...	...	...	...	1	5	...	8	...	82

Digitized by Google

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1908.	State.	Counties—Alcona															
			Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
83	Diseases of veins	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
84	Diseases of lymphatics	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
85,86	Other diseases of circulatory system	38	...	...	...	...	...	...	...	1	2	...	...	...	1	...	...	...
	IV. Diseases of the Respiratory System.																	
88	Laryngitis	10	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
	Other diseases of larynx	43	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
89	Diseases of thyroid body	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
90	Acute bronchitis	389	...	4	8	10	5	1	...	1	7	...	4	2	5	5	2	4
91	Chronic bronchitis	238	...	...	2	1	2	...	...	2	5	1	4	6	6	2	4	2
92	Bronchopneumonia	485	...	6	3	4	2	...	...	2	13	1	4	4	7	4	4	1
93	Pneumonia	1,828	4	3	27	17	4	6	4	4	56	8	16	9	43	13	11	14
94	Pleurisy	65	...	...	1	1	1	...	...	1	1	...	1	4	...	...	1	...
95	Congestion of lungs	132	...	...	3	...	1	1	1	1	6	...	5	1	1	2	1	1
96	Gangrene of lungs	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
97,98	Asthma and emphysema	88	...	...	...	1	1	1	2	1	3	...	...	...	...	1	2	...
	Hemorrhage of lungs	33	...	...	...	...	...	...	...	...	1	...	2	...	1	...	...	...
87,99	Other diseases of respiratory system	69	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	3
	V. Diseases of Digestive System.																	
100	Diseases of mouth	28	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...
101,102	Tonsilitis	20	...	1	1	...	...	...	...	1	...	...	1	...	...	...	...	...
	Other diseases of pharynx	32	...	...	1	...	1	...	...	...	...	...	...	2	1	...	...	1
103	Ulcer of stomach	96	...	...	1	1	...	...	...	2	2	1	1	1	2	2	1	...
104	Gastritis	235	...	...	12	3	2	2	...	4	8	1	11	2	7	...	...	...
	Other diseases of stomach	326	1	...	11	3	1	1	...	1	12	2	3	6	3	1	1	1
(314)	Dentition	31	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...
105	Diarrhea and enteritis (under 2 years)	2,201	11	27	30	21	20	5	20	8	42	10	55	5	19	13	36	18
106	Diarrhea and enteritis (over 2 years)	532	1	1	11	3	8	5	...	4	7	2	13	3	16	12	5	6
108	Hernia	90	...	...	1	...	1	1	...	1	...	1	4	3	2	2	...	...
	Obstruction of intestines	283	...	1	5	4	...	1	...	1	5	1	3	7	2	3	3	...
107,109	Other diseases of intestines	98	...	...	2	...	3	2	...	4	1	1	4	1	2	...	1	...
110	Acute yellow atrophy of liver	32	...	...	...	...	1	...	...	2	1	...	...	2	2	...	...	...
111	Hydatid tumors of liver	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
112	Cirrhosis of liver	284	...	...	1	2	...	...	3	1	4	...	7	4	13	5	...	...

Digitized by Google

by counties, during the year 1908. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	1	...	...	...	1	...	...	...	...	83
...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	84
...	...	...	...	...	...	3	...	1	...	...	2	...	...	1	...	1	...	...	...	...	2	3	...	...	...	85,86
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	} 88
...	...	...	...	...	1	...	1	...	...	...	...	...	...	3	2	1	...	...	...	...	2	...	...	...	1	
...	...	...	...	...	...	1	...	...	1	...	...	1	...	1	1	...	1	...	...	1	...	...	...	1	...	89
8	...	...	...	5	3	...	2	9	2	8	2	3	3	12	4	3	3	2	2	3	11	6	7	26	5	90
2	...	3	...	...	3	3	2	5	...	...	...	2	2	7	3	2	2	1	1	...	2	7	...	17	...	91
5	3	...	1	7	5	2	1	5	...	3	3	8	1	26	5	2	4	2	1	2	3	10	...	19	5	92
15	2	14	3	29	10	15	14	29	4	16	25	20	19	54	27	22	16	8	12	15	34	36	3	100	2	93
1	1	...	...	2	...	...	...	4	...	1	...	1	...	2	1	1	1	...	...	...	3	3	1	4	...	94
1	...	3	...	2	2	1	1	6	...	...	1	2	1	...	2	...	2	1	...	1	6	4	1	6	...	95
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	...	...	...	...	96
1	1	...	...	...	...	1	...	1	1	1	1	...	1	3	...	1	3	...	...	...	3	2	1	5	...	97,98
...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	2	...	...	1	...	1	...	...	2	...	} 87,99
1	1	...	...	3	...	...	1	2	...	1	1	...	...	2	1	1	2	...	...	...	2	...	...	6	...	
...	...	...	...	2	2	...	...	...	...	1	...	...	...	2	...	...	1	1	...	...	...	2	...	...	...	100
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	2	...	...	1	...	2	...	} 101,102
...	...	2	...	...	1	...	...	1	...	...	...	...	...	3	...	...	...	...	...	...	2	1	...	3	1	
...	...	...	...	1	...	1	3	...	...	1	...	5	...	1	...	...	1	...	1	2	1	7	1	10	...	103
...	...	4	...	...	...	1	...	4	...	3	1	6	5	2	1	3	4	1	...	1	4	5	...	14	...	} 104
6	1	1	...	4	3	4	3	6	1	4	7	2	2	8	7	9	5	5	...	3	4	7	4	42	...	
...	...	...	...	2	2	...	...	...	...	1	...	...	...	2	...	2	...	1	...	...	...	...	...	1	1	(314)
33	14	8	4	71	41	14	29	30	6	41	24	5	8	118	34	30	9	13	29	21	27	46	7	100	12	105
9	5	7	2	9	5	11	4	8	2	4	13	10	3	12	5	15	12	3	5	5	7	19	3	19	1	106
...	...	1	...	...	...	1	...	1	...	...	...	...	1	2	...	...	2	...	1	...	1	3	...	5	...	} 108
2	1	1	1	2	1	6	3	7	...	2	...	...	...	4	2	3	4	1	2	4	6	7	...	22	1	
1	...	1	...	...	...	5	...	3	...	...	1	...	...	2	...	2	...	...	1	3	3	3	...	4	...	107,109
...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	3	...	3	...	110
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	111
3	1	...	...	4	3	2	2	6	1	...	2	...	10	5	4	7	4	...	...	1	8	6	1	11	...	112

Digitized by Google

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1908.	State.	Counties—Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
113	Biliary calculi	85	...	...	2	...	1	...	...	...	2	1	1	1	4	1	...	...
114	Other diseases of liver	176	1	...	3	2	2	...	...	1	1	1	9	3	5	1	...	2
115	Diseases of spleen	13	...	...	1	...	1	...	...	...	...	...	...	1	...	...	...	...
116	Peritonitis	246	...	1	3	6	...	...	...	...	...	1	4	2	6	3	...	1
118	Appendicitis	346	2	1	4	2	2	1	...	2	15	1	4	5	9	2	2	...
117	Other diseases of digestive system	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI. Diseases of Genito-urinary System.																	
119	Acute nephritis	117	...	...	...	...	2	...	...	...	2	2	2	...	2	1	...	...
120	Bright's disease	1,370	3	1	27	7	8	4	3	11	26	3	36	10	33	16	7	12
121	Other diseases of kidneys	52	...	...	2	...	1	1	...	...	2	...	4	1	1	2	...	...
122	Calculi of urinary tract	14	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
123	Diseases of bladder	110	...	...	3	1	...	1	...	1	5	...	4	3	...	1	...	...
129	Uterine tumor	43	...	...	2	...	...	...	...	...	...	...	...	1	...	1	...	...
127, 128, 130	Other diseases of uterus	42	...	...	...	...	...	...	...	...	1	...	1	...	1	...	...	...
131	Ovarian tumor	26	...	...	1	...	...	...	...	...	1	...	...	1	...	...	...	...
124, 126, 132, 133	Diseases of tubes	27	...	...	...	...	...	...	...	...	1	...	1	1	2	1	...	...
	Other diseases of genito-urinary system	108	...	...	...	...	...	...	...	1	3	...	2	1	3	...	...	2
	VII. Childbirth.																	
137	Puerperal septicemia	188	...	...	2	2	5	2	...	1	5	2	3	1	2	3	1	3
138	Puerperal convulsions	97	1	...	...	1	...	...	...	1	1	1	3	...	1	1	...	1
134, 136, 139, 141	Other causes incident to childbirth	155	...	...	3	...	1	2	...	...	2	...	5	1	1	4	...	...
	VIII. Diseases of Skin.																	
142	Gangrene	133	...	...	2	2	3	1	...	...	5	1	...	4	2	1	...	...
143	Carbuncle	4	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...
144	Abscess	40	1	...	2	...	1	...	...	...	3	...	2	...	...	...	...	1
145	Other diseases of skin	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
	IX. Diseases of Locomotor System.																	
146	Diseases of bones	78	...	...	...	1	...	...	...	...	3	1	1	1	3	1	1	...
147	Diseases of joints	5	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...
148, 149	Other diseases of locomotor system	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Digitized by Google

by counties, during the year 1908. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
2	...	1	...	...	...	...	...	2	...	1	1	2	...	3	1	3	...	...	...	...	2	3	...	3	...	113
1	...	4	...	2	1	2	1	3	1	1	1	2	2	4	3	4	6	1	1	1	9	...	...	9	...	114
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	115
...	...	1	...	1	1	3	4	3	1	2	1	4	1	7	1	8	3	1	1	1	9	5	...	20	1	116
3	1	6	...	3	3	4	2	4	...	3	3	2	1	17	3	5	8	2	1	2	4	12	2	27	...	118
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	117
...	1	...	...	2	2	1	1	5	...	2	2	1	2	5	...	...	2	1	...	...	5	3	...	11	...	119
6	4	11	1	6	4	24	15	29	1	6	6	15	14	22	15	21	14	5	...	13	37	27	1	87	3	120
...	...	2	...	...	...	...	...	1	...	1	2	...	2	1	3	2	...	...	...	...	...	...	1	5	...	121
...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	1	...	...	...	...	3	...	1	...	122
...	...	...	...	1	1	...	...	1	...	2	1	3	2	2	2	...	3	...	...	1	2	4	...	8	...	123
...	...	...	...	1	...	2	...	...	...	...	...	...	2	1	...	...	2	1	...	...	...	2	...	5	...	129
...	...	1	...	1	...	2	...	...	1	1	2	...	1	...	...	...	...	...	...	...	1	...	...	...	...	127, 128, 130
...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	1	...	...	...	...	1	...	...	...	...	131
...	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	3	...	124, 126, 132, 133
...	...	4	...	1	2	6	1	...	1	...	1	3	1	2	...	...	3	...	...	...	2	3	1	2	1	
3	3	1	...	...	1	2	...	3	...	3	6	2	1	1	2	4	3	...	1	1	3	1	1	11	2	137
1	...	1	1	1	1	...	...	2	...	...	2	...	...	2	3	4	...	1	3	3	2	2	1	5	...	138
1	...	2	...	...	3	1	2	2	1	2	1	1	1	4	...	2	3	...	1	3	2	4	1	9	...	134, 136, 139, 141
...	...	...	...	1	...	3	...	4	...	...	1	1	3	1	4	2	1	...	...	1	5	...	2	10	...	142
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	143
...	...	...	...	...	...	...	...	1	...	...	1	...	...	1	...	1	1	...	...	1	1	2	...	2	...	144
...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	1	2	...	...	1	...	...	...	...	1	...	145
...	...	1	...	1	2	...	...	2	...	1	1	...	1	5	1	...	...	...	...	1	1	...	...	4	...	146
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	147
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	148, 149

Digitized by Google

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1908.	State.	Counties—Alcona	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
	X. Malformations.																	
150	Hydrocephalus	32	...	...	2	...	1	...	...	...	...	...	1	...	1	1	...	...
	Congenital malformation of heart (cyanosis)	299	...	...	4	3	5	...	...	1	9	2	11	2	2	1	4	3
	Other congenital malformations	155	...	...	...	1	...	1	...	3	4	1	...	1	4	...	4	6
	XI. Early Infancy.																	
151–153	Premature birth	975	3	8	16	9	6	7	...	1	31	8	10	10	25	2	5	5
	Congenital debility	1,410	...	4	17	14	5	4	1	5	39	13	22	6	12	4	7	11
	XII. Old Age.																	
154	Old age	1,627	11	...	29	8	9	5	2	8	36	6	21	25	26	12	5	14
	XIII. Violence.																	
155	Suicide by poison	143	...	...	1	...	2	1	...	1	2	...	2	3	1	...	...	...
156	Suicide by asphyxia	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
157	Suicide by hanging	76	...	...	1	...	...	...	...	...	...	...	...	2	2	1	1	...
158	Suicide by drowning	18	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...
159	Suicide by firearms	98	...	...	2	1	1	2	1	2	2	...	1	2	3	2	1	...
160	Suicide by cutting instruments	24	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
161	Suicide by jumping from high places	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
162	Suicide by crushing	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
163	Suicide by other or unspecified means	13	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
164, 165	Fractures and dislocations	176	...	...	2	2	...	...	...	2	2	...	2	1	7	2	1	1
167	Burns and scalds	194	...	...	1	2	...	...	...	1	3	...	6	3	4	2	...	...
169	Heat and sunstroke	31	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...
170	Cold and freezing	42	...	3	...	...	...	...	1	...	...	...	...	...	1	...	1	...
(171)	Lightning	22	1	...	...	...	1	...	...	1	...	...	2	...	...	1	...	...
172	Drowning	361	...	1	11	5	3	2	...	3	11	3	17	2	4	4	3	1
174	Inhalation of poisonous gases	23	...	...	...	...	...	...	...	...	...	...	2	...	2	...	...	...
175	Other accidental poisoning	102	...	...	...	...	...	1	...	...	2	1	4	1	...	1	2	3
166	Accidental gunshot wounds	83	...	2	2	...	2	...	...	...	7	...	2	...	...	...	...	1
	Injuries by machinery	41	...	...	1	1	...	...	...	...	1	...	2	...	...	...	...	1
	Injuries in mines and quarries	129	...	...	...	...	...	...	1	...	2	...	...	...	...	...	...	...
	Railroad accidents and injuries	263	...	4	2	1	3	1	4	1	8	1	4	2	13	3	3	1
	Injuries by vehicles and horses	115	...	...	1	1	1	2	...	4	3	3	2	3	1	2	1	...
	Injuries by electric cars	78	...	...	...	...	...	...	...	...	1	...	1	...	1	...	...	...

Digitized by Google

by counties, during the year 1908. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
...	...	...	...	...	...	...	1	...	...	...	...	1	...	1	...	1	1	...	...	...	1	...	...	2	...	159
4	1	1	...	3	1	3	...	2	1	...	5	3	4	10	1	3	2	...	1	2	3	5	...	22	1	
1	1	...	3	2	...	2	3	5	2	1	1	4	3	6	3	5	2	1	1	2	3	3	2	6	...	
9	6	7	2	18	11	11	9	19	5	8	4	8	6	38	16	14	8	3	7	7	13	33	6	50	7	151-153
19	5	1	1	22	14	5	16	19	4	17	17	12	13	61	15	16	12	3	5	9	19	26	10	64	5	
6	7	17	1	6	9	25	7	42	5	4	20	13	26	23	26	30	27	3	1	17	22	16	3	89	1	154
...	1	2	...	1	...	4	...	1	1	...	...	...	3	1	...	4	1	...	1	3	2	3	2	14	...	155
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	2	...	156
...	...	2	1	...	2	1	...	1	...	...	...	...	2	7	...	2	2	...	2	...	3	2	...	4	1	157
...	...	...	...	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	158
...	...	...	...	1	1	1	...	2	...	...	...	...	...	4	1	...	...	...	...	...	1	1	1	10	...	159
1	1	...	...	1	...	1	...	1	...	...	...	...	...	...	1	...	1	...	1	...	1	...	...	2	...	160
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	161
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	162
...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	163
1	1	2	...	7	1	1	1	2	...	1	2	1	3	6	...	1	1	1	1	1	4	7	...	12	...	164, 165
1	...	2	2	6	1	2	1	4	...	3	3	1	1	6	2	...	1	1	2	1	5	3	...	5	2	167
...	1	...	...	2	2	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	1	1	...	...	...	169
...	...	...	...	...	1	...	...	...	...	3	...	...	...	...	...	...	...	...	1	3	...	3	...	1	1	170
...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	1	...	1	...	1	...	...	1	...	(171)
13	...	2	...	4	4	2	6	9	1	3	3	3	2	5	...	6	2	4	2	1	5	6	...	21	1	172
...	...	2	...	1	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...	2	...	174
1	1	1	...	1	3	1	2	1	...	...	...	4	1	5	...	1	1	...	1	1	2	...	...	3	...	175
2	1	2	...	1	1	1	1	2	1	1	1	...	2	1	1	1	1	...	1	...	1	2	...	5	1	166
...	1	...	...	2	...	1	...	...	...	...	...	1	...	1	...	...	...	1	...	1	...	...	1	4	...	
...	...	...	...	...	4	...	...	...	...	12	...	...	...	61	...	...	...	...	14	...	1	...	...	...	6	
...	...	...	...	2	2	1	1	6	...	3	1	2	4	9	...	8	1	2	1	...	6	7	3	13	...	
1	...	...	...	2	1	...	...	1	...	1	1	4	1	2	1	3	2	...	...	1	3	1	...	7	...	
...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	...	3	2	...	5	...	

Digitized by Google

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death 1908.	State.	Counties—Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
	Suffocation	58	...	1	...	...	1	...	...	...	1	...	2	1	2	...	1	...
166, 168	Other accidental injuries	321	...	...	2	2	2	3	2	2	7	2	7	4	14	2	2	1
(171) 176	Injuries at birth	62	...	...	3	...	...	1	...	...	1	...	3	1	2	...	...	...
	Homicide	66	...	...	...	1	...	...	...	1	2	...	...	1	3	1	...	...
	XIV. Ill-defined Diseases.																	
177	"Dropsy"	98	...	...	1	2	...	...	...	...	3	...	3	2	4	2	...	1
	"Heart failure"	129	1	...	5	2	1	1	...	...	3	...	3	...	3	2	...	2
178–179	Other ill-defined diseases	378	1	1	8	9	3	...	4	...	9	5	5	2	7	2	1	1
	Unknown or unspecified	155	3	2	4	4	...	2	3	...	2	1	1	...	...	1	...	1

Digitized by Google

by counties, during the year 1908. (Stillbirths excluded.)

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	Gd. Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Classification No.
1	...	...	...	...	1	...	2	...	1	...	2	2	1	...	...	2	...	...	...	...	...	1	...	3	...	166, 168, (171, 176
4	3	7	...	7	4	2	3	5	...	2	1	3	2	9	...	4	5	1	3	2	10	3	1	12	3	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	1	...	1	1	...	3	1	...	6	...	
1	...	1	...	...	...	1	...	...	...	4	...	...	...	2	...	...	...	...	1	...	1	...	...	2	...	
1	...	...	...	1	...	...	2	...	...	2	1	...	1	...	...	...	3	...	...	1	...	...	...	4	...	177
1	1	...	...	4	2	7	2	5	...	2	3	3	...	9	...	1	3	1	...	1	...	1	...	1	...	178–179
2	1	2	...	1	3	6	5	9	...	2	...	5	5	11	3	3	5	3	3	3	6	3	3	14	1	
1	3	2	1	11	1	2	1	...	...	9	2	2	2	6	1	...	2	...	9	1	2	...	...	2	1	

Digitized by Google

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1908.	Counties—Lake.																
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
	ALL CAUSES	59	364	142	671	262	91	114	431	341	631	276	272	307	160	122	398	425
	I. General Diseases.																	
	(*A. Epidemic diseases.*																	
1	Typhoid fever	1	12	3	11	6	6	1	5	6	9	5	5	11	9	4	5	9
	Typho-malarial fever	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
4	Malarial fever	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	Smallpox	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
6	Measles	...	...	...	...	...	...	...	...	...	21	4	...	4	1	...	...	...
7	Scarlet fever	...	...	...	2	...	1	...	...	...	4	1	...	2	...	2	...	...
8	Whooping cough	...	1	1	5	2	...	...	2	4	3	2	2	1	1	7	9	7
9	Diphtheria	...	2	...	4	1	...	3	...	...	33	5	1	3	...	...	2	1
	Croup	...	1	...	...	...	...	1	...	...	3	...	1	1	1	...	...	...
	Membranous croup	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
10	Influenza	...	2	2	28	6	1	...	6	5	3	9	9	7	3	3	5	15
13	Cholera nostras	...	...	...	...	...	...	1	...	1	2	...	2	1	...	...	2	1
14	Dysentery	...	7	1	3	...	1	3	...	...	7	3	1	3	1	1	2	2
18	Erysipelas	...	...	...	4	...	...	...	...	2	1	1	1	1	...	...	1	...
19	Chicken pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	German measles	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mumps	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Other epidemic diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	B. Other general diseases.																	
20	Septicemia	2	...	...	5	1	1	2	4	2	4	...	3	...	...	...	4	2
27	Tuberculosis of lungs	6	22	17	32	14	6	10	32	23	40	18	17	19	5	8	26	23
26	Tuberculosis of larynx	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...
28	Tuberculous meningitis	...	...	...	5	...	...	...	2	3	8	2	...	4	1	...	3	2
29	Abdominal tuberculosis	...	1	...	3	...	1	...	2	1	5	1	...	1	...	...	5	4
30	Pott's disease	...	...	1	2	1	...	1	...	1	1	...	...	...	...	...	...	...
31	Tuberculous abscess	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	White swelling	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...	1
33	Tuberculosis of other organs	...	...	...	...	1	...	...	...	1	1	1	...	...	...	...	...	2
34	General tuberculosis	...	1	...	...	1	1	...	...	...	1	...	...	...	...	...	...	1
35	Scrofula	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
36–38	Veneral diseases	...	...	...	1	...	...	...	...	1	...	...	...	2	...	...	...	...
39	Cancer of mouth	...	...	1	3	...	...	1	...	...	2	...	...	...	...	...	2	1

Digitized by Google

by counties, during the year 1908. (Stillbirths excluded.)

to Wexford.

Montmorency	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
44	501	244	741	243	96	110	194	20	84	523	162	24	1106	746	316	367	126	449	427	405	676	6925	282	
...	10	4	6	4	5	2	5	...	2	6	4	...	22	21	3	8	4	5	5	10	5	111	10	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	1	...	...	...	...	...	...	...	...	...	...	4	...	2	...	...	1	...	1	...	6	...	4
...	...	...	...	1	...	...	2	...	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...	5
...	2	...	...	2	...	2	1	...	...	...	...	...	...	...	...	...	2	...	...	...	...	17	...	6
...	3	3	4	...	1	...	...	...	1	5	...	...	4	...	...	2	...	1	3	...	...	78	3	7
...	14	3	4	3	2	...	...	...	2	5	...	3	4	5	...	...	...	3	2	13	2	77	2	8
...	3	2	2	...	...	7	1	...	1	4	6	...	3	3	...	2	...	3	...	...	7	62	...	
...	...	...	2	1	...	...	1	...	...	...	...	...	3	...	...	...	...	...	...	...	...	3	...	9
...	...	...	...	...	...	...	1	...	...	2	1	...	...	1	...	...	...	...	2	...	1	4	...	
...	8	9	20	7	2	...	2	...	4	11	1	...	11	20	5	12	2	11	7	14	14	43	5	10
...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	2	...	...	...	...	...	5	...	13
1	3	1	11	1	...	...	3	...	...	2	...	...	3	2	7	1	2	5	1	2	3	21	...	14
...	3	1	3	1	...	...	...	...	...	3	...	1	5	3	...	...	...	1	1	...	...	15	1	18
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	19
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	2	2	5	3	...	1	2	...	...	2	2	...	7	5	...	3	...	1	...	...	2	36	2	20
4	37	15	58	14	8	12	12	4	6	40	5	1	64	49	14	16	6	19	21	21	28	471	15	27
...	...	...	...	...	...	...	...	...	...	4	...	...	1	1	...	...	...	...	1	...	1	4	1	26
...	2	...	1	...	...	1	...	...	...	...	...	...	4	4	...	1	...	...	2	...	3	28	...	28
...	1	2	4	1	...	...	...	...	...	...	...	...	8	3	1	1	...	1	1	2	3	22	...	29
...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	1	1	...	30
...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	32
...	1	...	...	1	...	1	1	...	...	...	...	...	2	...	...	...	...	...	1	...	3	9	...	33
...	...	1	2	...	...	...	...	...	...	1	...	...	3	...	...	...	...	...	...	...	1	12	...	34
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	35
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	90	...	36–38
...	1	...	...	...	...	...	...	...	...	...	...	...	3	6	3	1	...	4	...	1	4	8	1	39

Digitized by Google

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1908.	Counties—Lake.																
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
40	Cancer of stomach and liver	2	10	3	13	9	...	1	11	11	18	4	7	3	2	3	8	6
41	Cancer of intestines	...	2	1	4	2	...	1	3	4	2	1	4	1	3	2	3	1
42	Cancer of genital organs	...	1	1	5	2	...	3	1	1	4	4	3	2	2	1	3	3
43	Cancer of breast	1	2	1	5	3	...	...	3	3	2	...	...	2	1	...	2	4
44	Cancer of skin	1	...	...	1	2	...	1	...	...	2	1	...	1	1	...	...	...
45	Cancer of other organs	...	3	1	7	...	...	1	2	4	3	2	1	...	...	1	2	4
46	Tumors	...	2	...	...	...	...	1	...	...	1	1	...	...	...	...	...	...
47, 48	Rheumatism	...	3	...	6	...	...	...	8	2	2	4	2	2	...	1	3	3
50	Diabetes	...	8	2	6	3	...	...	5	5	7	1	4	3	1	2	4	2
53, 54	Anemia	...	3	1	14	1	...	...	2	2	2	...	...	...	...	1	2	7
56	Alcoholism	...	...	...	2	...	1	1	2	...	1	...	...	1	...	...	...	...
57–59	Chronic poisonings	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...
55, etc.	Other general diseases	...	1	3	1	4	...	...	...	...	1	1	...	...	...	1	1	5
	II. Diseases of Nervous System.																	
60	Encephalitis	...	1	...	1	1	...	...	2	1	1	...	1	...	...	...	2	...
61	Meningitis	...	1	1	2	2	1	1	2	5	13	3	5	3	4	3	3	5
62	Locomotor ataxia	...	4	...	...	...	...	...	2	...	1	...	...	2	...	...	...	1
63	Other diseases of spinal cord	...	2	...	1	...	...	...	4	1	2	1	...	1	...	1	2	...
64	Apoplexy	6	23	8	37	11	5	1	37	13	14	4	10	6	17	1	11	23
65	Softening of brain	...	1	...	...	...	...	...	4	...	...	...	...	...	...	...	2	2
66	Paralysis	2	9	1	35	13	1	2	13	2	7	6	8	6	...	5	10	12
67	General paralysis of insane	...	...	...	2	1	16	...	2	...	...	...	...	...	...	...	...	1
68	Other forms of mental disease	...	1	...	1	...	5	...	1	...	1	1	1	1	...	...	...	...
(74)	Other diseases of the brain	...	1	...	...	...	...	...	...	...	...	1	1	...	...	1	2	1
69	Epilepsy	...	10	...	2	...	1	...	...	1	...	...	2	1	1	...	2	1
70, 71	Convulsions	1	6	1	3	1	1	1	3	5	5	3	4	10	4	...	6	...
72	Tetanus	...	1	...	1	...	...	1	...	1	1	1	1	...	...	...	...	1
73–76	Other diseases of nervous system	...	...	...	2	2	2	...	...	...	3	1	2	...	...	...	1	3
	III. Diseases of Circulatory System.																	
77	Pericarditis	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	...	...
78	Endocarditis	1	...	...	2	3	...	...	1	1	4	...	...	...	...	...	1	1
79	Heart disease	6	46	4	113	45	10	14	39	29	32	33	27	20	12	6	53	49
80	Angina pectoris	...	6	...	9	5	...	...	1	1	1	1	1	...	2	1	...	2
81	Diseases of arteries	...	4	...	4	2	...	...	6	3	2	1	3	2	...	...	6	4
82	Embolism and thrombosis	...	1	...	...	1	...	...	2	...	1	...	...	...	...	...	...	...

Digitized by Google

by counties, during the year 1908. (Stillbirths excluded.)

to Wexford.

Montmorency	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
...	18	5	14	3	1	1	2	1	...	15	1	....	22	11	15	11	....	7	10	14	22	123	5	40
...	...	1	8	4	...	...	...	...	...	1	1	....	9	7	1	4	....	1	3	2	9	28	1	41
...	6	2	8	3	2	...	2	...	1	4	....	....	10	5	4	1	2	3	....	1	12	50	4	42
...	4	...	5	1	...	1	...	...	...	4	....	....	7	1	4	....	....	4	3	1	5	18	....	43
...	1	3	9	1	...	...	1	...	...	2	1	....	4	1	1	....	1	5	1	2	4	6	1	44
2	3	2	7	1	...	1	1	...	...	7	1	....	14	3	3	4	1	....	4	6	11	53	2	45
...	1	1	...	...	...	...	...	...	...	...	...	....	2	....	1	1	....	1	....	2	1	4	....	46
1	1	2	4	3	...	1	4	...	...	5	3	....	5	4	3	1	1	4	5	1	7	36	1	47, 48
...	5	1	10	4	1	1	3	...	...	3	2	....	10	10	4	2	1	4	3	7	7	55	1	50
1	9	5	9	2	1	...	3	...	1	7	....	....	7	4	3	7	....	6	8	4	8	44	1	53–54
...	3	...	1	...	...	1	1	...	...	...	....	....	....	1	....	....	1	....	....	....	....	20	....	56
...	...	1	...	...	...	...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	1	....	57–59
...	2	...	2	1	1	1	1	...	...	4	2	....	2	3	2	2	....	2	2	5	1	20	....	55, etc.
...	3	...	...	...	...	...	...	...	...	2	....	....	1	....	....	....	....	1	....	....	1	6	....	60
...	11	2	5	2	...	2	2	...	2	4	....	....	23	4	4	4	4	4	4	1	9	120	2	61
...	...	...	2	...	1	...	...	...	1	...	....	....	3	1	2	1	....	3	....	1	2	10	....	62
1	4	1	1	...	...	...	...	...	...	...	....	....	9	2	....	2	....	4	5	....	4	14	2	63
2	22	6	34	10	4	2	4	...	...	43	3	....	42	40	27	11	1	24	23	28	53	228	5	64
...	3	...	2	...	...	...	1	...	...	2	....	....	....	2	2	....	1	3	1	....	....	2	....	65
...	8	9	26	9	2	1	3	...	...	5	1	....	24	21	10	13	6	13	16	12	18	127	3	66
...	...	...	15	...	...	...	...	...	...	2	....	....	....	1	1	....	....	1	1	....	....	20	....	67
1	...	1	13	...	...	...	...	...	...	...	....	....	1	1	....	1	....	....	....	....	1	8	....	68
1	3	...	3	1	...	...	...	...	...	2	....	....	3	....	2	1	....	....	1	1	5	25	4	(74)
...	...	1	12	...	1	...	...	...	...	3	1	....	2	3	1	....	1	2	3	....	1	11	2	69
...	3	2	5	...	...	...	...	...	1	...	8	....	19	8	....	6	2	....	4	1	3	190	1	70, 71
...	...	...	...	...	...	...	1	...	...	1	....	....	1	....	2	....	....	1	1	1	2	4	1	72
1	3	3	3	...	...	...	1	...	...	1	....	....	2	....	....	....	1	2	....	1	....	10	....	73–76
...	...	...	1	...	...	...	...	...	...	1	1	....	1	1	....	....	....	....	1	1	1	2	....	77
1	2	...	4	3	...	...	2	...	1	1	....	....	3	8	2	....	....	1	4	3	4	62	1	78
...	62	27	107	27	6	1	21	3	6	62	5	3	99	87	41	49	7	69	60	59	75	555	24	79
...	3	1	6	1	...	1	2	...	...	1	1	....	9	3	1	3	....	1	3	2	7	24	1	80
...	5	3	15	1	...	...	2	...	...	5	....	....	7	11	2	6	....	7	3	5	8	34	....	81
...	2	1	7	...	...	...	...	...	...	...	....	....	2	3	1	....	....	....	....	1	1	21	....	82

Digitized by Google

Table IV.—Continued.—Causes of death in Michigan,

Classification No.	Causes of death, 1908.	Counties—Lake	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
83	Diseases of veins	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...
84	Diseases of lymphatics	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
85,86	Other diseases of circulatory system	...	...	...	3	1	...	...	...	...	1	...	1	...	...	...	2	...
	IV. Diseases of the Respiratory System.																	
88	Laryngitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Other diseases of larynx	...	...	...	2	1	...	...	...	...	3	1	...	1	1	1	1	...
89	Diseases of thyroid body	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
90	Acute bronchitis	1	2	2	2	2	1	...	7	3	19	3	6	7	...	1	4	3
91	Chronic bronchitis	2	4	...	3	1	...	...	2	...	5	...	3	1	1	1	3	5
92	Bronchopneumonia	...	...	2	6	4	1	1	7	7	7	7	2	4	1	2	5	7
93	Pneumonia	2	13	7	28	10	6	4	12	21	43	14	12	22	11	10	20	19
94	Pleurisy	...	...	...	1	1	...	...	1	...	...	2	...	...	...	...	2	...
95	Congestion of lungs	1	1	...	2	1	...	...	...	1	1	2	1	...	1	2	3	4
96	Gangrene of lungs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
97,98	Asthma and emphysema	...	1	1	2	1	...	...	1	2	2	...	1	1	...	...	...	2
87,99	Hemorrhage of lungs	...	...	...	1	...	...	...	...	1	1	...	...	...	...	...	1	...
	Other diseases of respiratory system	...	1	2	1	1	...	...	2	...	1	2	1	...	...	...	2	...
	V. Diseases of Digestive System.																	
100	Diseases of mouth	...	...	...	1	1	...	...	...	...	2	...	...	...	...	...	...	...
101,102	Tonsilitis	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	1
	Other diseases of pharynx	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...
103	Ulcer of stomach	...	1	...	3	...	...	...	...	3	...	...	...	1	...	...	1	1
104	Gastritis	...	...	2	4	...	...	...	6	2	...	1	1	...	1	...	3	6
	Other diseases of stomach	1	3	...	1	2	2	2	3	4	...	1	2	1	4	...	4	10
(314)	Dentition	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
105	Diarrhea and enteritis (under 2 years)	...	13	7	18	3	3	15	15	29	70	20	11	36	17	13	19	11
106	Diarrhea and enteritis (over 2 years)	2	9	3	4	4	5	2	5	5	10	1	6	7	2	5	4	8
108	Hernia	...	1	...	...	...	...	1	3	1	1	...	1	3	...	...	...	1
	Obstruction of intestines	...	2	3	6	4	1	...	3	1	1	1	3	1	3	...	1	1
107,109	Other diseases of intestines	...	...	...	2	...	...	...	2	...	1	...	2	1	...	...	1	2
110	Acute yellow atrophy of liver	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	3	...
111	Hydatid tumors of liver	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
112	Cirhosis of liver	2	7	2	6	4	2	...	6	8	1	...	1	6	2	1	5	3
113	Biliary calculi	...	1	...	3	1	...	...	1	2	...	...	...	...	1	...	3	...
114	Other diseases of liver	...	2	...	1	1	...	...	2	1	...	2	3	1	2	...	2	2

Digitized by Google

by counties, during the year 1908. (Stillbirths excluded.)

to Wexford.

Montmorency	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	83
...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	1	...	...	84
...	...	1	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	1	...	8	...	85,86
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	1	88
...	...	1	2	4	...	1	1	...	1	1	...	...	2	...	...	...	...	...	1	...	1	5	...	
...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	89
...	6	3	3	1	2	4	4	...	...	5	2	...	14	6	...	3	...	4	7	...	2	71	2	90
...	2	1	3	4	...	1	2	...	1	8	...	1	13	3	4	7	3	2	6	2	5	36	2	91
...	11	...	8	...	2	2	1	...	3	4	3	...	13	10	2	...	5	1	5	8	3	161	2	92
3	16	8	28	20	5	4	4	3	3	32	2	3	62	37	21	18	4	20	11	9	18	445	15	93
...	...	1	1	...	...	1	...	...	...	2	...	...	4	...	1	1	...	1	1	1	1	6	...	94
...	...	...	1	3	...	...	...	...	...	4	...	...	6	1	2	...	1	4	2	...	4	16	1	95
...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	96
...	1	...	2	...	...	2	1	...	...	...	2	...	3	2	3	1	...	...	...	...	2	17	...	97,98
...	2	1	2	2	1	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	8	...	87,99
...	1	...	1	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	3	...	1	18	1	
...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	2	...	...	1	4	1	100
...	1	...	...	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	2	...	101,102
1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	6	1	
...	1	1	2	...	...	...	...	...	2	...	1	...	2	3	...	1	...	1	3	...	4	16	...	103
1	8	2	1	3	1	1	1	...	1	6	...	...	10	4	2	1	...	7	3	8	3	35	...	104
...	2	2	2	1	...	2	2	...	...	5	4	1	9	4	...	2	1	12	4	2	7	33	6	
...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	1	...	...	...	...	...	11	...	(314)
4	22	11	29	12	4	11	15	...	8	26	17	...	55	39	6	19	17	17	14	10	8	425	18	105
1	5	3	9	4	2	...	3	2	2	5	3	1	3	7	5	2	4	7	16	10	3	50	8	106
...	3	1	1	...	...	...	...	...	...	5	1	...	7	2	...	...	1	...	...	1	3	18	1	108
...	4	2	6	...	1	...	3	...	...	4	1	...	6	8	3	3	...	10	3	1	13	63	3	
...	1	...	3	1	...	...	2	...	...	3	...	...	2	4	1	1	...	4	2	1	3	8	1	109
...	...	1	1	1	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	1	2	1	110
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	111
...	1	1	3	7	...	1	1	...	...	3	...	...	10	4	4	2	...	2	1	1	3	63	...	112
...	1	1	2	1	1	...	...	...	...	1	...	...	6	4	...	...	...	3	...	1	3	12	...	113
...	3	1	3	...	4	...	1	...	1	1	...	...	5	7	2	3	...	2	1	3	5	24	1	114

Digitized by Google

Table IV.—Continued.—Causes of death in Michigan.

Classification No.	Causes of death, 1908.	Counties—Lake.																
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
115	Diseases of spleen	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
116	Peritonitis	...	3	...	6	3	...	...	4	5	10	3	1	...	...	1	1	6
118	Appendicitis	...	4	4	7	4	...	...	2	1	8	1	5	4	3	...	5	7
117	Other diseases of digestive system	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
	VI. Diseases of Genito-urinary System.																	
119	Acute nephritis	...	...	...	1	1	...	...	1	...	1	...	...	1	...	1	...	...
120	Bright's disease	2	10	3	29	8	...	2	25	19	12	10	17	4	5	2	20	14
121	Other diseases of kidneys	...	1	...	1	...	...	1	1	1	...	...	...	...	...	...	...	...
122	Calculi of urinary tract	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
123	Diseases of bladder	1	1	1	1	...	...	1	...	1	1	1	3	2	1	1	1	2
129	Uterine tumor	...	...	...	...	...	...	1	...	1	1	1	...	2	...	...	...	...
127, 128, 130	Other diseases of uterus	...	...	...	1	1	...	...	1	...	...	...	1	...	...	...	...	1
131	Ovarian tumor	...	...	...	1	...	...	...	...	1	...	...	...	1	...	1	...	...
124, 126 132, 133	Diseases of tubes	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...
	Other diseases of genito-urinary system	...	...	...	4	1	...	...	...	1	...	1	2	...	1	...	1	4
	VII. Childbirth.																	
137	Puerperal septicemia	1	...	1	4	1	...	...	1	1	4	2	4	...	1	...	1	3
138	Puerperal convulsions	1	1	2	2	...	...	...	3	...	2	...	1	...	...	1	...	2
134–136 139–141	Other causes incident to childbirth	...	3	2	2	...	...	...	1	1	4	1	1	...	...	1	...	4
	VIII. Diseases of Skin.																	
142	Gangrene	...	4	...	3	1	...	...	2	...	2	1	1	2	1	...	3	2
143	Carbuncle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
144	Abscess	...	1	1	2	...	...	1	...	...	...	1	...	...	...	1	1	1
145	Other diseases of skin	...	1	...	1	...	...	...	...	...	...	...	...	...	2	...	1	...
	IX. Diseases of Locomotor System.																	
146	Diseases of bones	...	3	1	1	...	...	...	1	...	1	1	2	1	...	1	1	...
147	Diseases of joints	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
148, 149	Other diseases of locomotor system	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	X. Malformations.																	
150	Hydrocephalus	...	2	...	...	1	...	...	1	...	1	...	...	...	...	...	...	...
	Congenital malformations of heart (cyanosis)	...	9	1	3	3	1	...	...	2	5	1	2	...	...	3	7	1
	Other congenital malformations	...	...	1	2	...	...	1	1	1	1	...	...	2	...	...	1	1

Digitized by Google

by counties, during the year 1908. (Stillbirths excluded).

to Wexford.

Montmorency	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	1	...	115
1	5	1	6	...	2	...	1	...	1	6	...	...	8	3	2	3	1	1	4	3	9	37	3	116
...	3	3	8	1	1	4	5	1	...	1	1	...	14	4	1	...	1	2	4	...	8	58	1	118
...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	5	...	117
...	1	...	1	...	1	1	...	...	2	...	...	...	1	3	1	1	1	...	2	4	1	33	1	119
3	19	7	26	7	3	1	18	1	2	11	3	1	63	37	6	10	2	19	17	24	29	270	15	120
...	1	...	...	1	...	...	...	...	...	1	...	...	2	1	1	2	...	...	1	...	...	3	...	121
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	2	...	122
...	3	...	4	...	...	...	1	...	...	1	1	...	2	2	...	...	1	5	2	2	5	11	...	123
...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	2	1	12	...	129
...	...	...	2	...	...	...	1	...	...	1	...	...	1	...	1	...	...	...	...	...	1	17	...	127, 128, 130
...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...	2	9	...	131
...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	1	9	...	124, 126, 132, 133
...	1	1	1	1	...	...	...	...	...	2	1	1	5	2	1	...	...	5	1	...	6	18	1	
...	1	3	3	3	1	...	2	...	2	2	...	...	3	...	1	2	1	1	4	2	2	40	4	137
...	...	1	2	2	...	...	...	...	...	2	1	1	2	2	3	...	...	3	1	...	1	13	2	138
...	...	3	4	...	...	...	1	...	1	4	1	...	...	3	1	4	2	2	4	1	4	31	4	134–136, 139–141
...	3	5	7	2	1	...	1	...	...	2	...	...	5	4	3	1	...	1	...	...	3	13	...	142
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	143
...	1	...	...	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	5	...	144
...	...	...	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1	...	1	3	4	...	145
...	2	1	...	1	...	1	...	...	...	1	...	1	1	2	1	...	...	2	...	...	1	17	1	146
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	147
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	148, 149
...	2	...	1	...	1	1	...	...	...	...	...	...	1	...	...	1	...	...	1	...	...	5	...	150
1	4	4	4	1	...	1	3	1	2	8	2	...	13	4	2	2	1	3	1	3	8	65	3	
...	2	...	2	2	...	1	...	...	...	2	...	...	5	7	1	5	1	1	5	...	2	16	5	

Digitized by Google

Table IV.—Concluded.—Causes of death of Michigan

Classification No.	Causes of death, 1908.	Counties—Lake.																
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.
	XI. Early Infancy.																	
151–153	Premature birth	2	6	7	10	3	...	5	12	8	10	14	11	16	2	6	9	10
	Congenital debility	2	3	4	13	2	2	4	11	15	27	13	5	14	3	3	11	10
	XII. Old Age.																	
154	Old age	2	22	6	39	19	2	3	34	15	10	13	10	12	2	2	17	24
	XIII. Violence.																	
155	Suicide by poison	...	...	...	4	...	1	2	3	2	1	2	1	...	1	...	...	3
156	Suicide by asphyxia	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
157	Suicide by hanging	...	...	...	3	...	...	1	3	4	1	1	3	1	...	...	...	1
158	Suicide by drowning	...	...	...	1	...	...	...	...	...	...	2	...	...	...	...	1	...
159	Suicide by firearms	1	...	1	5	...	...	...	...	1	...	...	1	1	1	...	3	1
160	Suicide by cutting instruments	...	...	...	1	...	...	...	1	...	1	...	...	...	2	...	...	...
161	Suicide by jumping from high places	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
162	Suicide by crushing	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
163	Suicide by other or unspecified means	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
164, 165	Fractures and dislocations	...	3	...	6	1	...	...	1	...	2	...	...	3	1	...	2	2
167	Burns and scalds	1	3	2	...	5	...	1	...	...	2	2	1	...	...	...	...	4
169	Heat and sunstroke	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	2
170	Cold and freezing	...	2	...	...	...	...	...	1	2	3	...	...	1	...	...	1	...
(171)	Lightning	1	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
172	Drowning	...	...	1	1	1	...	3	2	7	13	4	3	2	3	1	3	...
174	Inhalation of poisonous gases	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...
175	Other accidental poisonings	...	...	1	1	...	...	1	1	1	1	...	...	2	1	...	...	2
166	Accidental gunshot wounds	...	1	...	1	...	...	...	1	...	2	1	...	1	1	...	3	3
	Injuries by machinery	...	...	...	1	...	...	...	...	1	...	2	...	...	...	...	1	1
	Injuries in mines and quarries	...	...	...	...	...	...	...	...	...	15	...	...	...	...	...	...	...
	Railroad accidents and injuries	2	2	...	4	5	...	2	4	4	10	1	2	3	2	1	6	...
	Injuries by vehicles and horses	...	...	1	5	1	...	...	1	1	...	2	1	...	1	...	1	2
	Injuries by electric cars	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...	1	...
166, 168 (171) 176	Suffocation	2	1	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...
	Other accidental injuries	...	2	3	...	2	1	...	7	4	9	2	...	...	1	...	1	5
	Injuries at birth	...	1	1	1	...	...	...	...	...	3	...	...	...	...	1	1	2
	Homicide	...	...	...	2	...	...	...	1	...	2	1	...	1	...	...	1	...
	XIV. Ill-defined Diseases.																	
177	"Dropsy"	...	2	2	6	...	...	...	2	...	...	1	1	...	1	...	2	1
178, 179	"Heart failure"	...	1	5	...	1	...	...	2	...	2	1	1	...	...	1	3	1
	Other ill-defined diseases	...	7	2	4	3	1	...	5	1	4	1	...	3	1	...	2	1
	Unknown or unspecified	1	...	2	...	...	...	4	...	...	8	...	...	5	1	3	2	2

Digitized by Google

by counties, during the year 1908. (Stillbirths excluded.)

to Wexford.

Montmorency	Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	St. Clair.	St. Joseph.	Sanilac.	Schoolcraft.	Shiawassee.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Classification No.
5	11	5	8	5	6	7	7	1	4	19	3	....	29	11	7	12	3	6	8	11	15	184	6	151–153
4	15	6	16	8	3	3	6	2	5	9	3	....	40	21	5	9	7	13	11	8	10	478	12	
3	12	14	31	9	1	3	2	1	4	21	10	1	63	60	21	35	3	17	29	21	26	326	19	154
...	...	1	2	1	...	1	...	...	...	...	...	...	7	4	2	1	...	...	2	2	2	40	1	155
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	6	...	156
...	2	...	...	1	...	...	...	...	...	...	...	...	2	...	...	1	...	...	1	3	2	7	...	157
...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	158
...	4	1	2	1	...	...	...	...	...	1	...	...	1	1	1	1	...	2	2	2	...	17	4	159
...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	3	...	160
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	161
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	162
...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	1	2	...	163
...	1	2	2	1	...	...	1	...	...	2	2	...	4	4	...	2	2	2	1	1	2	47	...	164, 165
...	1	1	1	1	1	1	2	...	1	4	26	...	10	2	2	1	...	2	2	1	4	32	1	167
...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	...	...	1	...	...	...	1	11	...	169
...	...	...	1	...	...	...	...	...	...	...	...	1	3	1	...	...	...	...	...	...	...	5	2	170
...	...	...	1	1	...	...	...	...	...	1	...	...	1	1	...	...	...	...	...	...	...	...	...	(171)
...	14	3	5	...	...	5	2	...	...	10	...	...	16	10	3	3	3	1	4	6	11	43	3	172
...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	5	...	174
...	2	...	...	...	1	1	...	...	...	2	1	1	2	...	...	2	3	2	2	2	1	24	...	175
...	1	1	2	...	...	2	2	...	...	...	...	1	4	1	2	...	1	...	...	...	...	3	3	166
...	1	...	...	...	...	1	...	...	...	1	1	...	2	2	...	2	...	1	...	1	...	3	1	
...	...	...	...	...	...	1	...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	8	...	
...	3	...	3	1	4	...	1	...	3	1	...	1	6	1	3	1	2	8	...	2	12	36	4	
...	2	...	...	4	1	...	...	...	...	1	1	...	2	3	1	3	...	2	4	2	3	12	2	
...	...	...	2	...	...	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	8	45	...	
...	...	1	3	...	...	2	1	...	1	3	...	...	1	...	...	1	...	2	...	1	2	10	...	166, 168, (171) 176
1	1	6	3	1	4	1	4	...	1	6	3	...	7	6	2	3	1	9	2	6	12	54	3	
...	...	1	...	1	...	...	1	...	1	1	...	...	3	1	1	1	...	...	...	1	...	11	2	
...	1	1	...	...	...	...	...	...	...	2	...	...	1	1	...	...	...	...	...	...	...	24	6	
...	1	...	2	4	1	...	1	...	...	...	3	...	5	2	...	3	3	...	2	1	4	14	...	177
...	...	1	4	...	...	1	...	...	1	...	1	...	6	6	2	4	1	3	2	1	3	4	1	178, 179
...	2	3	1	1	2	...	1	...	...	1	3	1	11	5	3	5	2	3	4	2	7	125	4	
...	6	...	1	...	1	...	...	...	1	...	6	...	5	...	2	1	...	...	3	3	1	12	1	

Digitized by Google

Digitized by Google

TABLES

RELATING TO

MARRIAGES

IN

MICHIGAN

DURING THE

YEAR 1908.

Digitized by Google

PRIMARY TABLES RELATING TO MARRIAGES IN MICHIGAN DURING THE YEAR 1908.

Table I.—Marriages in Michigan, by months and counties, during the year 1908

Table II.—Persons married in Michigan, by ages, counties and sex, during the year 1908.

Table III.—Marriages and persons married in Michigan, by nativity and counties, during the year 1908.

Table IV.—Marriages in Michigan, by ages of males and females, married during the year 1908.

Table V.—Probate marriages in Michigan, by ages of males and females married during the year, 1908.

NOTE.—*Secondary tables* containing marriage rates and other rates, and comparative tables, displaying the facts relative to marriages in Michigan for the year 1908 in connection with previous years and other states and countries, may be found on preceding pages of this report, together with the descriptive text.

Digitized by Google

Table VI.—Marriages in Michigan, by months and counties, during the year 1908.

State and counties.	Year, 1908.	Months, 1908.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
STATE	25,765	1,702	1,591	1,608	1,830	1,780	3,242	1,995	2,254	2,692	2,390	2,499	2,179
Alcona	51	3	4	4	2	4	1	5	5	6	7	7	3
Alger	65	2	9	4	3	4	9	6	5	6	5	7	5
Allegan	333	19	24	26	32	20	32	23	24	31	28	33	41
Alpena	154	12	6	9	13	9	15	4	13	27	15	15	16
Antrim	153	8	15	11	12	13	17	13	15	15	10	14	10
Arenac	72	3	4	9	4	2	12	3	15	3	8	3	6
Baraga	37	5	1	4	1	1	9	3	6	3	1	1	2
Barry	197	15	12	11	13	11	28	13	18	11	20	23	22
Bay	551	45	37	37	39	48	77	37	37	52	41	64	37
Benzie	110	11	7	3	15	14	11	9	11	13	5	4	7
Berrien	1,619	60	46	55	59	113	230	245	302	190	126	96	97
Branch	230	18	8	15	16	11	33	15	19	22	22	31	20
Calhoun	549	34	28	31	31	34	77	37	36	56	69	63	53
Cass	213	6	14	10	15	18	24	20	17	32	13	18	26
Charlevoix	160	14	10	11	17	6	9	15	6	20	18	13	21
Cheboygan	150	15	11	7	8	13	13	14	16	16	12	13	12
Chippewa	214	19	10	14	18	12	24	16	28	24	12	14	23
Clare	79	7	3	9	8	11	9	8	3	4	.....	6	11
Clinton	183	15	12	17	13	15	15	7	10	11	25	14	29
Crawford	41	5	1	2	2	2	10	3	3	2	5	4	2
Delta	227	9	14	16	14	27	22	25	22	27	15	21	15
Dickinson	164	13	16	11	11	14	22	6	10	16	14	16	15
Eaton	322	23	15	29	21	19	37	22	22	38	27	39	30
Emmet	202	9	7	13	16	19	16	16	31	26	14	17	18
Genesee	414	16	26	30	39	29	54	26	33	46	34	30	50
Gladwin	58	4	3	3	6	4	5	5	6	3	6	8	5
Gogebic	267	27	23	12	12	26	29	21	24	29	23	27	14
Grand Traverse	230	12	16	16	9	21	18	16	21	27	25	26	23
Gratiot	320	17	17	41	25	19	26	21	31	22	30	32	39
Hillsdale	315	25	21	28	34	20	28	15	30	32	32	26	24
Houghton	782	56	62	46	40	71	92	68	60	81	95	76	34
Huron	246	23	15	14	18	11	32	14	13	19	26	31	30
Ingham	506	25	27	30	40	40	55	37	39	55	53	22	83
Ionia	314	19	20	20	30	24	39	20	15	30	29	27	41
Iosco	77	4	7	3	8	3	9	6	7	10	10	3	7
Iron	114	11	9	5	3	7	15	7	6	9	13	20	9
Isabella	201	16	10	15	18	14	21	8	15	19	21	27	17
Jackson	508	29	29	30	35	34	74	35	35	55	46	54	50
Kalamazoo	636	38	39	46	55	52	71	53	39	66	59	58	60
Kalkaska	81	4	8	5	10	8	4	2	7	10	5	10	8
Kent	1,568	101	88	79	139	95	254	122	126	166	140	140	118
Keweenaw	46	4	1	1	1	2	13	3	4	6	6	5	.....
Lake	46	3	2	3	6	4	4	3	2	4	3	4	8
Lapeer	240	12	14	30	18	5	30	15	20	29	17	24	26
Leelanau	62	4	8	3	3	8	7	2	5	8	8	3	3
Lenawee	432	33	26	30	32	19	54	25	42	48	44	38	41
Livingston	149	10	8	13	9	10	19	10	8	17	15	18	12
Luce	27	1	1	.....	6	.....	3	4	2	1	1	4	4
Mackinac	60	4	5	5	2	2	9	10	6	9	2	5	1
Macomb	240	13	16	13	17	12	36	13	10	33	21	34	22
Manistee	244	12	19	12	11	18	36	19	21	32	25	28	11
Marquette	365	18	27	22	22	34	49	30	33	38	27	36	29
Mason	199	20	10	11	8	17	21	17	19	19	21	19	17
Mecosta	209	9	9	21	18	11	23	16	14	14	25	25	24
Menominee	420	31	21	28	37	38	49	40	37	41	36	39	23
Midland	113	4	11	6	11	7	13	3	7	13	10	12	16
Missaukee	74	5	5	8	8	6	6	4	6	12	3	6	5
Monroe	470	27	36	31	33	39	39	34	35	53	40	56	47
Montcalm	303	23	15	16	25	14	30	25	24	26	40	32	33
Montmorency	34	5	....	2	4	3	1	2	2	4	4	2	5

Digitized by Google

Table I.—Concluded.—Marriages in Michigan, by months and counties, during the year 1907.

Counties.	Year, 1908.	Months, 1908.											
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Muskegon	342	20	23	18	22	25	54	21	31	36	32	33	27
Newaygo	168	18	14	11	15	11	18	11	11	13	13	12	21
Oakland	325	19	21	29	37	20	39	16	19	24	31	34	36
Oceana	158	9	11	12	9	7	17	9	14	14	16	23	17
Ogemaw	79	1	.....	6	7	6	6	8	10	5	6	12	12
Ontonagon	55	3	8	4	3	4	7	6	6	2	6	4	2
Osceola	174	7	10	15	22	12	21	11	14	16	13	7	26
Oscoda	20	1	1	3	3	2	4	1	.....	1	.....	1	3
Otsego	66	6	7	3	3	10	5	6	2	10	4	6	4
Ottawa	432	24	19	42	48	29	38	41	34	38	40	46	33
Presque Isle	97	6	10	5	6	7	8	6	5	14	12	9	9
Roscommon	18	3	.....	.....	3	.....	4	2	1	1	1	.....	3
Saginaw	725	52	45	41	55	55	97	53	69	87	57	72	42
St. Clair	409	39	24	31	25	25	51	27	26	48	41	40	32
St. Joseph	206	21	11	19	14	10	23	15	18	20	24	12	19
Sanilac	277	20	9	24	18	9	32	17	24	22	38	24	40
Schoolcraft	57	7	4	2	10	5	5	4	3	5	5	4	3
Shiawassee	318	29	11	27	22	16	40	19	25	33	26	39	31
Tuscola	308	19	15	20	18	27	36	21	21	29	24	50	28
Van Buren	260	19	13	14	13	14	28	32	26	27	21	34	19
Washtenaw	327	22	27	21	28	17	48	20	22	29	32	30	31
Wayne	4,249	310	324	208	251	284	620	308	373	463	417	442	248
Wexford	249	12	16	17	23	18	21	25	20	18	24	22	33

Digitized by Google

Table II.—Persons married in Michigan, by ages, counties and sex, during the year 1908.

State and counties.	Total marriages, 1908.	Sex.	Number of persons married, by periods of age, 1908.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.
STATE	25,765	Total	7,884	20,557	10,923	4,580	2,654	1,591	1,126	767	566	441	273	108	45	9	6
		Males	771	10,422	6,892	2,929	1,683	939	691	475	343	291	200	82	38	8	1
		Females	7,113	10,135	4,031	1,651	971	652	435	292	223	150	73	26	7	1	5
Alcona	51	Totals	30	33	15	10	6	1	2	2	....	2	....	1	....	..	..
		Males	5	21	8	8	5	.....	1	1	....	1	....	1	....	..	..
		Females	25	12	7	2	1	1	1	1	....	1	....	....	....	..	..
Alger	65	Totals	22	58	26	11	8	3	2	....	....	....	....	....	....	..	..
		Males	.....	30	19	9	3	3	1	....	....	....	....	....	....	..	..
		Females	22	28	7	2	5	.....	1	....	....	....	....	....	....	..	..
Allegan	333	Totals	121	265	130	42	33	29	15	11	9	6	4	1	....	..	..
		Males	12	147	83	25	21	17	10	4	5	5	3	1	....	..	..
		Females	109	118	47	17	12	12	5	7	4	1	1	....	....	..	..
Alpena	154	Totals	57	113	65	28	14	10	6	5	2	3	3	1	1	..	..
		Males	3	59	44	19	8	7	4	3	2	2	2	....	1	..	..
		Females	54	54	21	9	6	3	2	2	....	1	1	1	....	..	..
Antrim	153	Totals	63	107	47	32	18	17	4	9	2	3	3	....	1	..	..
		Males	3	62	28	22	14	10	4	5	1	1	2	....	1	..	..
		Females	60	45	19	10	4	7	.....	4	1	2	1	....	....	..	..
Arenac	72	Totals	28	58	22	11	5	4	4	3	3	3	2	1	....	..	..
		Males	2	31	17	8	2	2	3	1	1	3	1	1	....	..	..
		Females	26	27	5	3	3	2	1	2	2	....	1	....	....	..	..
Baraga	37	Totals	14	30	14	6	4	2	2	....	2	....	....	....	....	..	..
		Males	2	17	8	4	2	2	1	....	1	....	....	....	....	..	..
		Females	12	13	6	2	2	.....	1	....	1	....	....	....	....	..	..
Barry	197	Totals	72	155	75	40	13	8	8	6	8	6	1	2	....	..	..
		Males	11	79	47	29	10	4	4	3	4	4	1	1	....	..	..
		Females	61	76	28	11	3	4	4	3	4	2	....	1	....	..	..
Bay	551	Totals	192	460	217	83	46	33	26	15	14	11	5	....	....	..	..
		Males	14	243	144	60	27	22	9	10	10	8	4	....	....	..	..
		Females	178	217	73	23	19	11	17	5	4	3	1	....	....	..	..
Benzie	110	Totals	51	79	40	16	13	9	5	2	....	3	1	....	1	..	..
		Males	4	47	25	13	7	7	2	1	....	3	....	....	1	..	..
		Females	47	32	15	3	6	2	3	1	....	....	1	....	....	..	..
Berrien	1,619	Totals	518	1,156	647	354	210	139	96	54	33	16	6	8	1	..	..
		Males	63	610	373	197	137	87	67	42	21	11	3	7	1	..	..
		Females	455	546	274	157	73	52	29	12	12	5	3	1	....	..	..
Branch	230	Totals	94	147	80	44	20	20	12	8	8	13	7	5	2	..	..
		Males	18	85	45	27	12	11	7	1	4	10	3	5	2	..	..
		Females	76	62	35	17	8	9	5	7	4	3	4	....	....	..	..
Calhoun	549	Totals	183	416	214	89	71	46	27	13	22	6	9	2	....	..	..
		Males	20	218	138	56	43	23	17	9	12	4	7	2	....	..	..
		Females	163	198	76	33	28	23	10	4	10	2	2	....	....	..	..
Cass	213	Totals	110	152	65	45	17	7	4	12	4	4	5	1	....	..	..
		Males	20	86	48	26	9	5	3	7	3	1	4	1	....	..	..
		Females	90	66	17	19	8	2	1	5	1	3	1	....	....	..	..
Charlevoix	160	Totals	53	121	59	27	19	8	10	11	4	6	1	1	....	..	..
		Males	3	61	42	16	15	4	4	6	3	4	1	1	....	..	..
		Females	50	60	17	11	4	4	6	5	1	2	....	....	....	..	..
Cheboygan	150	Totals	53	136	50	28	17	6	3	1	2	4	....	....	....	..	..
		Males	1	75	34	19	9	6	2	1	....	3	....	....	....	..	..
		Females	52	61	16	9	8	.....	1	....	2	1	....	....	....	..	..
Chippewa	214	Totals	67	158	85	46	26	20	12	9	5	..	....	....	....	..	..
		Males	5	75	59	32	11	12	10	7	3	....	....	....	....	..	..
		Females	62	83	26	14	15	8	2	2	2	....	....	....	....	..	..

Digitized by Google

Table II.—Continued.—Persons married in Michigan, by ages, counties and sex, during the year 1908.

Counties.	Total marriages, 1908.	Sex.	Number of persons married, by periods of age, 1908.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown
Clare	79	Totals	43	58	24	11	6	5	6	4	....	1	....	....	....	..	..
		Males	4	35	18	7	5	2	4	3	....	1	....	....	....	..	..
		Females	39	23	6	4	1	3	2	1	....	....	....	....	....	..	..
Clinton	183	Totals	55	143	86	28	15	12	5	5	6	4	5	2	....	..	..
		Males	3	74	55	17	11	7	1	3	6	2	3	1	....	..	..
		Females	52	69	31	11	4	5	4	2	....	2	2	1	....	..	..
Crawford	41	Totals	16	31	20	7	7	1	....	....	....	....	....	....	....	..	..
		Males	1	17	13	2	7	1	....	....	....	....	....	....	....	..	..
		Females	15	14	7	5	....	....	....	....	....	....	....	....	....	..	..
Delta	227	Totals	66	170	124	45	20	11	7	5	2	2	2	....	....	..	..
		Males	5	84	71	31	16	8	5	3	1	1	2	....	....	..	..
		Females	61	86	53	14	4	3	2	2	1	1	....	....	....	..	..
Dickinson	164	Totals	51	129	76	36	12	11	6	4	1	1	....	1	....	..	..
		Males	2	62	50	28	7	7	5	1	....	1	....	1	....	..	..
		Females	49	67	26	8	5	4	1	3	1	....	....	....	....	..	..
Eaton	322	Totals	104	250	101	61	36	27	13	18	15	14	3	2	....	..	..
		Males	11	138	59	40	16	18	7	10	8	11	3	1	....	..	..
		Females	93	112	42	21	20	9	6	8	7	3	....	1	....	..	..
Emmet	202	Totals	82	143	78	36	21	17	11	5	3	6	1	1	....	..	..
		Males	4	88	47	22	14	10	7	4	1	4	1	....	....	..	..
		Females	78	55	31	14	7	7	4	1	2	2	....	1	....	..	..
Genesee	441	Totals	133	342	157	79	40	20	17	15	10	7	6	....	1	1	..
		Males	14	189	92	46	27	9	11	9	6	4	5	....	1	1	..
		Females	119	153	65	33	13	11	6	6	4	3	1	....	....	..	..
Gladwin	58	Totals	33	39	18	11	4	5	2	1	3	....	....	....	....	..	.
		Males	1	27	12	7	2	4	2	1	2	....	....	....	....	..	..
		Females	32	12	6	4	2	1	....	....	1	....	....	....	....	..	..
Gogebic	267	Totals	87	227	123	42	16	17	7	9	4	1	1	....	....	..	..
		Males	5	111	87	28	12	10	4	6	3	....	1	....	....	..	..
		Females	82	116	36	14	4	7	3	3	1	1	....	....	....	..	..
Grand Traverse	230	Totals	91	167	99	39	21	22	8	4	3	5	1	....	....	..	..
		Males	10	93	60	26	15	12	5	3	2	3	1	....	....	..	..
		Females	81	74	39	13	6	10	3	1	1	2	....	....	....	..	..
Gratiot	320	Totals	136	241	114	45	25	12	12	14	13	15	6	3	4	..	..
		Males	20	138	72	32	15	6	7	5	5	11	4	1	4	..	..
		Females	116	103	42	13	10	6	5	9	8	4	2	2	....	..	..
Hillsdale	315	Totals	107	234	111	53	27	23	19	23	13	9	7	1	2	..	1
		Males	13	127	67	33	17	13	11	14	7	6	5	1	1	..	..
		Females	94	107	44	20	10	10	8	9	6	3	2	....	1	..	1
Houghton	782	Totals	207	604	434	110	61	34	12	5	2	4	....	....	....	..	1
		Males	10	333	282	76	39	22	10	4	2	3	....	....	....	..	1
		Females	197	361	152	34	22	12	2	1	....	1	....	....	....	..	..
Huron	246	Totals	78	196	105	51	29	10	9	6	2	4	....	1	1	..	..
		Males	7	94	65	39	23	4	4	4	2	3	....	1	....	..	..
		Females	71	102	40	12	6	6	5	2	....	1	....	....	1	..	..
Ingham	506	Totals	160	409	204	87	50	29	24	15	16	11	4	2	1	..	..
		Males	17	213	127	59	32	13	15	6	11	8	3	1	1	..	..
		Females	143	196	77	28	18	16	9	9	5	3	1	1	....	..	..
Ionia	314	Totals	96	240	129	62	30	17	14	7	12	14	4	1	2	..	..
		Males	13	128	70	42	19	11	6	3	9	9	3	1	....	..	..
		Females	83	112	59	20	11	6	8	4	3	5	1	....	2	..	..
Iosco	77	Totals	21	71	29	8	8	4	5	2	....	3	1	2	....	..	..
		Males	1	37	19	4	6	3	3	....	....	2	1	1	....	..	..
		Females	20	34	10	4	2	1	2	2	....	1	....	1	....	..	..

Digitized by Google

Table II.—Continued.—Persons married in Michigan, by ages counties and sex, du the year 1908.

Counties.	Total marriages, 1908.	Sex.	Number of persons married, by periods of age, 1908.												
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.
Iron	114	Totals	33	93	55	21	16	2	5	2	....	1	....	....	....
		Males	1	45	35	17	10	1	3	1	....	1	....	....	....
		Females	32	48	20	4	6	1	2	1	....	....	....	....	....
Isabella	201	Totals	73	174	72	24	15	10	13	7	7	4	3	....	....
		Males	5	96	45	17	13	6	6	5	4	2	2	....	....
		Females	68	78	27	7	2	4	7	2	3	2	1	....	....
Jackson	508	Totals	152	361	232	110	51	30	27	25	9	10	5	4	....
		Males	21	182	140	62	35	17	15	14	8	6	5	3	....
		Females	131	179	92	48	16	13	12	11	1	4	....	1	....
Kalamazoo	366	Totals	191	465	297	120	68	49	41	9	12	8	6	5	....
		Males	35	226	181	66	48	26	25	5	8	6	4	5	....
		Females	156	239	116	54	20	23	16	4	4	2	2	....	....
Kalkaska	81	Totals	38	50	31	11	13	8	6	1	1	1	1	1	....
		Males	1	34	20	6	8	6	2	1	1	....	1	1	....
		Females	37	16	11	5	5	2	4	....	....	1	....	....	....
Kent	1,568	Totals	347	1,263	699	333	166	98	78	46	40	29	24	8	4
		Males	33	600	428	197	103	60	54	29	19	21	15	5	3
		Females	314	663	271	136	63	38	24	17	21	8	9	3	1
Keweenaw	46	Totals	19	46	15	8	2	1	1	....	....	....	....	....	....
		Males	2	23	11	7	2	1	....	....	....	....	....	....	....
		Females	17	23	4	1	....	....	1	....	....	....	....	....	....
Lake	46	Totals	24	34	13	4	10	4	2	1	....	....	....	....	....
		Males	2	22	9	1	7	2	2	1	....	....	....	....	....
		Females	22	12	4	3	3	2	....	....	....	....	....	....	....
Lapeer	240	Totals	84	191	96	33	21	17	19	7	2	3	3	....	4
		Males	13	102	55	24	14	8	12	4	2	1	1	....	4
		Females	71	89	41	9	7	9	7	3	....	2	2	....	....
Leelanau	62	Totals	22	50	30	12	4	4	....	2	....	....	....	....	....
		Males	3	20	22	10	2	3	....	2	....	....	....	....	....
		Females	19	30	8	2	2	1	....	....	....	....	....	....	....
Lenawee	432	Totals	155	364	158	74	36	15	11	20	8	8	6	6	2
		Males	23	194	99	48	20	10	8	8	3	6	5	5	2
		Females	132	170	59	26	16	5	3	12	5	2	1	1	....
Livingston	149	Totals	32	120	63	27	25	10	1	5	8	5	....	1	1
		Males	1	58	38	16	18	6	1	3	2	4	....	1	1
		Females	31	62	25	11	7	4	....	2	6	1	....	....	....
Luce	27	Totals	9	19	10	9	3	4	....	....	....	....	....	....	....
		Males	....	10	6	6	2	3	....	....	....	....	....	....	....
		Females	9	9	4	3	1	1	....	....	....	....	....	....	....
Mackinac	60	Totals	21	43	28	11	10	4	1	1	1	....	....	....	....
		Males	1	22	20	7	4	3	1	1	1	....	....	....	....
		Females	20	21	8	4	6	1	....	....	....	....	....	....	....
Macomb	240	Totals	70	206	98	38	27	9	6	10	6	2	6	2	....
		Males	3	111	60	24	19	5	2	7	2	2	4	1	....
		Females	67	95	38	14	8	4	4	3	4	....	2	1	....
Manistee	244	Totals	79	213	114	32	20	12	6	8	2	1	....	1	....
		Males	5	98	80	28	13	8	5	5	1	....	....	1	....
		Females	74	115	34	4	7	4	1	3	1	1	....	....	....
Marquette	365	Totals	107	301	183	58	33	15	10	5	6	6	3	....	1
		Males	9	154	113	40	22	10	2	4	4	4	2	....	1
		Females	98	147	70	18	11	5	9	1	2	2	1	....	....
Mason	199	Totals	72	157	89	33	20	15	3	7	1	1	....	....	....
		Males	5	82	59	23	11	11	1	5	1	1	....	....	....
		Females	67	75	30	10	9	4	2	2	....	....	....	....	....

Digitized by Google

Table II,—Continued.—Persons married in Michigan, by ages, counties and sex, during the year 1908.

Counties.	Total marriages, 1908.	Sex.	Number of persons married, by periods of age, 1908.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.
Mecosta	209	Totals	80	174	73	32	14	10	9	6	10	6	3	1	....	..	..
		Males	6	92	56	18	9	6	8	4	4	3	2	1	....	..	..
		Females	74	82	17	14	5	4	1	2	6	3	1	....	....	..	..
Menominee	429	Totals	102	340	191	67	66	21	23	11	7	8	1	....	3	..	..
		Males	10	154	126	43	40	12	15	6	5	6	1	....	2	..	..
		Females	92	186	65	24	26	9	8	5	2	2	....	....	1	..	..
Midland	113	Totals	45	95	36	16	8	6	4	7	1	5	2	....	1	..	..
		Males	3	53	26	9	6	5	1	4	1	3	1	....	1	..	..
		Females	42	42	10	7	2	1	3	3	....	2	1	....	....	..	..
Missaukee	74	Totals	54	62	13	6	4	6	2	....	1	....	....	....	....	..	..
		Males	8	43	11	4	2	3	2	....	1	....	....	....	....	..	..
		Females	46	19	2	2	2	3	....	....	....	....	....	....	....	..	..
Monroe	470	Totals	152	405	166	78	53	26	23	18	6	4	7	2	....	..	..
		Males	16	218	105	47	33	13	11	13	5	3	4	2	....	..	..
		Females	136	187	61	31	20	13	12	5	1	1	3	....	....	..	..
Montcalm	303	Totals	119	253	101	43	25	8	12	13	12	7	9	3	1	..	..
		Males	11	140	70	26	17	3	8	9	6	4	7	2	....	..	..
		Females	108	113	31	17	8	5	4	4	6	3	2	1	1	..	..
Montmorency	34	Totals	12	26	14	3	4	1	3	2	....	2	....	1	....	..	..
		Males	1	14	8	3	4	....	1	....	....	2	....	1	....	..	..
		Females	11	12	6	....	....	1	2	2	....	....	....	....	....	..	..
Muskegon	342	Totals	67	254	171	68	35	28	22	22	8	5	3	1	....	..	..
		Males	8	113	103	38	25	16	15	13	6	3	1	1	....	..	..
		Females	59	141	68	30	10	12	7	9	2	2	2	....	....	..	..
Newaygo	168	Totals	73	115	45	30	21	13	14	8	7	2	5	1	1	1	..
		Males	4	68	32	21	11	10	6	5	5	....	4	1	1	..	..
		Females	69	47	13	9	10	3	8	3	2	2	1	....	....	1	..
Oakland	325	Totals	58	248	144	69	35	24	24	14	11	12	6	3	1	..	1
		Males	5	107	91	41	24	14	10	10	6	8	5	3	1	..	..
		Females	53	141	53	28	11	10	14	4	5	4	1	....	....	..	1
Oceana	158	Totals	58	125	59	25	10	17	5	4	3	4	5	1	....	..	..
		Males	5	67	38	17	6	10	4	3	2	1	4	1	....	..	..
		Females	53	58	21	8	4	7	1	1	1	3	1	....	....	..	..
Ogemaw	79	Totals	31	65	29	8	8	7	3	2	1	2	....	2	....	..	..
		Males	3	31	24	5	6	3	2	2	....	2	....	1	....	..	..
		Females	28	34	5	3	2	4	1	....	1	....	....	1	....	..	..
Ontonagon	55	Totals	7	49	31	14	4	2	2	....	1	....	....	....	....	..	..
		Males	1	14	22	11	3	2	1	....	1	....	....	....	....	..	..
		Females	6	35	9	3	1	....	1	....	....	....	....	....	....	..	..
Osceola	174	Totals	83	142	66	22	14	8	6	1	2	1	3	....	....	..	..
		Males	11	76	43	21	9	5	4	1	1	....	3	....	....	..	..
		Females	72	66	23	1	5	3	2	....	1	1	....	....	....	..	..
Oscoda	20	Totals	9	17	8	2	....	....	1	....	2	1	....	....	....	..	..
		Males	1	9	6	2	....	....	....	....	1	1	....	....	....	..	..
		Females	8	8	2	....	....	....	1	....	1	....	....	....	....	..	..
Otsego	66	Totals	39	43	25	12	2	3	2	....	5	1	....	....	....	..	..
		Males	1	28	20	10	1	1	1	....	3	1	....	....	....	..	..
		Females	38	15	5	2	1	2	1	....	2	....	....	....	....	..	..
Ottawa	432	Totals	113	399	192	61	88	18	10	12	4	4	10	1	....	1	1
		Males	16	190	117	46	24	9	7	10	2	2	8	....	....	1	..
		Females	97	209	75	15	14	9	3	2	2	2	2	1	....	..	1
Presque Isle	97	Totals	44	68	43	13	8	7	1	3	2	1	1	2	....	..	..
		Males	4	35	31	11	4	6	....	1	2	1	....	2	....	..	..
		Females	40	33	12	2	4	1	1	2	....	....	2	....	....	..	..

Digitized by Google

Table II.—Concluded.—Persons married in Michigan, by ages, counties and sex, during the year 1908.

Counties.	Total marriages, 1908.	Sex.	Number of persons married, by periods of age, 1908.														
			Under 20 years.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.
Roscommon	18	Totals	7	19	4	3	1	.....	1	....	....	....	....	....	....	1	..
		Males	.....	10	3	3	1	.....	.....	....	....	....	....	....	....	1	..
		Females	7	9	1	.....	.....	.....	1	....	....	....	....	....	....	..	..
Saginaw	725	Totals	234	610	297	101	70	39	41	23	17	10	5	2	1	..	..
		Males	16	315	195	73	41	17	26	18	10	8	5	....	1	..	..
		Females	218	295	102	28	29	22	15	5	7	2	....	2	....	..	..
St. Clair	409	Totals	111	322	188	67	36	33	21	8	12	9	8	2	1	..	..
		Males	13	153	116	47	19	21	12	5	9	7	4	2	1	..	..
		Females	98	169	72	20	17	12	9	3	3	2	4	....	....	..	..
St. Joseph	206	Totals	66	162	70	39	28	15	13	7	4	3	5	....	....	..	..
		Males	8	78	51	24	17	9	7	4	2	2	4	....	....	..	..
		Females	58	84	19	15	11	6	6	3	2	1	1	....	....	..	..
Sanilac	277	Totals	87	224	108	51	29	18	6	11	10	8	....	2	....	..	..
		Males	5	113	74	32	19	11	3	6	7	5	....	2	....	..	..
		Females	82	111	34	19	10	7	3	5	3	3	....	....	....	..	..
Schoolcraft	57	Totals	29	38	29	6	5	1	4	2	....	....	....	....	....	..	..
		Males	1	23	21	4	4	.....	4	....	....	....	....	....	....	..	..
		Females	28	15	8	2	1	1	.....	2	....	....	....	....	....	..	..
Shiawassee	318	Totals	110	247	130	47	21	22	15	9	11	10	11	2	....	1	..
		Males	7	140	79	36	8	12	8	6	8	4	7	2	....	1	..
		Females	103	107	51	11	13	10	7	3	3	6	4	....	....	..	..
Tuscola	308	Total	98	266	114	62	29	17	6	11	5	6	2	....	....	..	..
		Males	9	132	75	42	19	11	5	5	4	4	2	....	....	..	..
		Females	89	134	39	20	10	6	1	6	1	2	....	....	....	..	..
Van Buren	260	Totals	91	190	93	43	26	20	10	10	11	8	8	5	5	..	..
		Males	15	99	53	28	17	13	5	6	7	2	6	4	5	..	..
		Females	76	91	40	15	9	7	5	4	4	6	2	1	....	..	..
Washtenaw	327	Totals	51	235	164	78	61	25	14	7	8	6	4	1	....	..	..
		Males	5	103	102	34	40	15	9	5	7	4	3	....	....	..	..
		Females	46	132	62	44	21	10	5	2	1	2	1	1	....	..	..
Wayne	4,249	Totals	935	3,606	2,059	792	461	230	173	88	71	45	29	7	1	1	..
		Males	79	1,692	1,281	501	284	136	112	60	42	28	27	5	1	1	..
		Females	856	1,914	778	291	177	94	61	28	29	17	2	2	....	..	..
Wexford	249	Totals	97	180	94	41	30	20	11	9	8	5	....	2	1	..	..
		Males	9	99	64	24	21	8	9	4	5	4	....	1	1	..	..
		Females	88	81	30	17	9	12	2	5	3	1	....	1	....	..	..

Digitized by Google

Table III.—Marriages and persons married in Michigan, by nativity and counties, during the year 1908.

State and counties.	Total marriages, 1908.	Marriages, by nativity, 1908.									Persons married, by nativity, 1908.					
		Both native born.	Both foreign born.	Foreign male, native female.	Foreign female, native male.	Female unk. Male. Native born.	Female unk. Male. Foreign born.	Male unk. Female. Native born.	Male unk. Female. Foreign born.	Both unknown.	Native born. Males.	Native born. Females.	Foreign born. Males.	Foreign born. Females.	Unk. Males.	Unk. Females.
STATE	25,765	18,058	3,161	2,735	1,535	239	32	3	1	1	19,832	20,796	5,928	4,607	5	272
Alcona	51	37	4	7	3	....	....	....	....	....	40	44	11	7	....	....
Alger	65	27	25	10	2	....	1	....	....	....	29	37	36	27	....	1
Allegan	333	297	6	18	9	3	....	....	....	....	309	315	24	15	....	3
Alpena	154	85	20	36	13	....	....	....	....	....	98	121	56	33	....	....
Antrim	153	118	6	21	6	1	....	....	....	1	125	139	27	12	1	2
Arenac	72	42	8	13	5	3	1	....	....	....	50	55	22	13	....	4
Baraga	37	14	12	8	3	....	....	....	....	....	17	22	20	15	....	....
Barry	197	183	1	6	6	1	....	....	....	....	190	189	7	7	....	1
Bay	551	372	62	81	33	3	....	....	....	....	408	453	143	95	....	3
Benzie	110	93	5	8	4	....	....	....	....	....	97	101	13	9	....	....
Berrien	1,619	1,220	146	134	103	13	2	1	....	....	1,336	1,355	282	249	1	15
Branch	230	218	2	5	4	1	....	....	....	....	223	223	7	6	....	1
Calhoun	549	479	9	36	23	2	....	....	....	....	504	515	45	32	....	2
Cass	213	200	9	4	....	....	....	....	....	....	200	204	13	9	....	....
Charlevoix	160	124	9	15	7	5	....	....	....	....	136	139	24	16	....	5
Cheboygan	150	108	9	26	7	....	....	....	....	....	115	134	35	16	....	....
Chippewa	214	73	67	47	27	....	....	....	....	....	100	120	114	94	....	....
Clare	79	60	1	7	4	7	....	....	....	....	71	67	8	5	....	7
Clinton	183	170	2	8	3	....	....	....	....	....	173	178	10	5	....	....
Crawford	41	25	8	4	3	1	....	....	....	....	29	29	12	11	....	1
Delta	227	109	59	35	21	2	1	....	....	....	132	144	95	80	....	3
Dickinson	164	50	63	38	11	2	....	....	....	....	63	88	101	74	....	2
Eaton	322	314	....	3	4	1	....	....	....	....	319	317	3	4	....	1
Emmet	202	159	12	17	13	1	....	....	....	....	173	176	29	25	....	1
Genesee	414	323	10	33	28	18	2	....	....	....	369	356	45	38	....	20
Gladwin	58	41	4	6	5	2	....	....	....	....	48	47	10	9	....	2
Gogebic	267	57	146	46	11	5	2	....	....	....	73	103	194	157	....	7
Grand Traverse	230	189	5	18	18	....	....	....	....	....	207	207	23	23	....	....
Gratiot	320	266	....	13	10	30	1	....	....	....	306	279	14	10	....	31
Hillsdale	315	299	1	7	1	7	....	....	....	....	307	306	8	2	....	7
Houghton	782	250	372	113	41	5	1	....	....	....	296	363	486	413	....	6
Huron	246	153	25	43	24	1	....	....	....	....	178	196	68	49	....	1
Ingham	506	393	24	31	27	29	1	1	....	....	449	425	56	51	1	30
Ionia	314	280	6	9	12	6	1	....	....	....	298	289	16	18	....	7
Iosco	77	50	6	11	9	....	1	....	....	....	59	61	18	15	....	1
Iron	114	21	57	28	8	....	....	....	....	....	29	49	85	65	....	....
Isabella	201	172	1	16	10	2	....	....	....	....	184	188	17	11	....	2
Jackson	508	426	15	30	26	11	....	....	....	....	463	456	45	41	....	11
Kalamazoo	636	511	50	41	33	1	....	....	....	....	545	552	91	83	....	1
Kalkaska	81	66	1	13	1	....	....	....	....	....	67	79	14	2	....	....
Kent	1,568	1,100	211	164	91	2	....	....	....	....	1,193	1,264	375	302	....	2
Keweenaw	46	15	21	6	4	....	....	....	....	....	19	21	27	25	....	....
Lake	46	37	1	5	2	1	....	....	....	....	40	42	6	3	....	1
Lapeer	240	194	9	21	16	....	....	....	....	....	210	215	30	25	....	....
Leelanau	62	50	1	7	4	....	....	....	....	....	54	57	8	5	....	....
Lenawee	432	394	7	22	8	1	....	....	....	....	403	416	29	15	....	1
Livingston	149	137	1	10	1	....	....	....	....	....	138	147	11	2	....	....
Luce	27	7	13	4	3	....	....	....	....	....	10	11	17	16	....	....
Mackinac	60	42	3	10	5	....	....	....	....	....	47	52	13	8	....	....

Digitized by Google

Table III.—Concluded.—Marriages and persons married in Michigan, by nativity and counties, during the year 1908.

Counties.	Total marriages, 1908.	Marriages, by nativity, 1908.									Persons married, by nativity, 1908.					
		Both native born.	Both foreign born.	Foreign male, native female.	Foreign female, native male.	Female unk.		Male unk.		Both unknown.	Native born.		Foreign born.		Unk.	
						Male.		Female.								
						Native born.	Foreign born.	Native born.	Foreign born.		Males.	Females.	Males.	Females.	Males.	Females.
Macomb	240	185	13	21	19	1	1	....	....	....	205	206	35	32	....	2
Manistee	244	173	20	36	14	....	1	....	....	....	187	209	57	34	....	1
Marquette	365	140	134	65	19	6	1	....	....	....	165	205	200	153	....	7
Mason	199	143	13	27	15	1	....	....	....	....	159	170	40	28	....	1
Mecosta	209	180	3	18	7	1	....	....	....	....	188	198	21	10	....	1
Menominee	420	270	49	70	30	1	....	....	....	....	301	340	119	79	....	1
Midland	113	92	2	11	8	....	....	....	....	....	100	103	13	10	....	....
Missaukee	74	65	1	6	2	....	....	....	....	....	67	71	7	3	....	....
Monroe	470	414	6	29	17	3	1	....	....	....	434	443	36	23	....	4
Montcalm	303	260	7	21	12	2	1	....	....	....	274	281	29	19	....	3
Montmorency	34	24	1	4	5	....	....	....	....	....	29	28	5	6	....	....
Muskegon	342	235	33	41	30	....	3	....	....	....	265	276	77	63	....	3
Newaygo	168	147	3	12	6	....	....	....	....	....	153	159	15	9	....	....
Oakland	325	255	14	31	13	10	2	....	....	....	278	286	47	27	....	12
Oceana	158	128	8	8	6	7	1	....	....	....	141	136	17	14	....	8
Ogemaw	79	53	3	12	9	2	....	....	....	....	64	65	15	12	....	2
Ontonagon	55	19	25	7	2	2	....	....	....	....	23	26	32	27	....	2
Osceola	174	145	2	13	7	7	....	....	....	....	159	158	15	9	....	7
Oscoda	20	17	....	2	1	....	....	....	....	....	18	19	2	1	....	....
Otsego	66	43	3	15	5	....	....	....	....	....	48	58	18	8	....	....
Ottawa	432	314	37	44	29	7	1	....	....	....	350	358	82	66	....	8
Presque Isle	97	71	1	15	9	....	....	1	....	....	80	87	16	10	1	....
Roscommon	18	15	....	1	2	....	....	....	....	....	17	16	1	2	....	....
Saginaw	725	538	42	84	58	2	1	....	....	....	598	622	127	100	....	3
St. Clair	409	256	48	60	45	....	....	....	....	....	301	316	108	93	....	....
St. Joseph	206	186	1	9	7	3	....	....	....	....	196	195	10	8	....	3
Sanilac	277	168	29	57	23	....	....	....	....	....	191	225	86	52	....	....
Schoolcraft	57	33	10	8	6	....	....	....	....	....	39	41	18	16	....	....
Shiawassee	318	279	9	19	9	2	....	....	....	....	290	298	28	18	....	2
Tuscola	308	253	11	29	14	....	....	....	1	....	267	282	40	26	1	....
Van Buren	260	234	2	15	7	1	1	....	....	....	242	249	18	9	....	2
Washtenaw	327	292	4	13	12	5	1	....	....	....	309	305	18	16	....	6
Wayne	4,249	2,188	1,083	618	358	2	....	....	....	....	2,548	2,806	1,701	1,441	....	2
Wexford	249	193	9	20	17	7	3	....	....	....	217	213	32	26	....	10

Digitized by Google

Table IV.—Marriages in Michigan, by ages of males and females married during the year 1908.

Ages of males married, 1908.	Ages of females married, 1908.															Total males.	Per cent of males at each age.
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.		
Under 20	630	130	8	1	1	1	....	....	....	....	....	....	....	....	....	771	3.0
20 to 24	4,612	5,146	588	50	13	7	5	....	....	....	....	....	....	....	1	10,422	40.4
25 to 29	1,431	3,384	1,746	263	45	14	5	1	....	....	....	....	....	....	3	6,892	26.7
30 to 34	314	959	931	544	147	20	11	1	1	....	....	1	....	....	....	2,929	11.4
35 to 39	84	365	461	377	281	80	26	5	3	....	....	....	....	....	1	1,683	6.5
40 to 44	28	94	170	224	199	173	35	10	4	1	1	....	....	....	....	939	3.6
45 to 49	9	34	77	112	154	149	109	34	9	2	2	....	....	....	....	691	2.7
50 to 54	3	12	25	55	74	107	92	76	24	4	3	....	....	....	....	475	1.8
55 to 59	1	7	12	15	36	54	77	64	54	21	2	....	....	....	....	343	1.4
60 to 64	1	3	7	4	11	32	47	57	67	52	7	2	1	....	....	291	1.2
65 to 69	....	....	4	5	8	10	19	29	41	40	32	10	2	....	....	200	0.8
70 to 74	....	....	1	1	2	3	6	11	15	22	13	6	2	....	....	82	0.3
75 to 79	....	1	....	....	....	1	1	2	4	8	12	6	2	1	....	38	0.2
80 +	....	....	....	....	....	1	2	2	1	....	1	1	....	....	....	8	0.0
Unknown	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	0.0
Total females	7,113	10,135	4,031	1,651	971	652	435	292	223	150	73	26	7	1	5	25,765	....
Per cent of females at each age	27.6	39.3	15.6	6.4	3.8	2.5	1.7	1.2	0.9	0.6	0.3	0.1	0.0	0.0	0.0	....	100.0

Digitized by Google

Table V.—Probate marriages in Michigan, by ages of males and females married during the year 1908.

Ages of males married by judges of probate, 1908.	Ages of females married by judges of probate, 1908.													Total males.	Per cent of males at each age.
	Ages under 20 years.							Under 20.	20 to 24.	25 to 29.	30 to 34.	40 to 44.	50 to 54.		
	13.	14.	15.	16.	17.	18.	19.								
Ages under 20 years: 17	....	....	1	3	1	3	2	*10*	1	....	....	....	....	11	15.3
Ages under 20 years: 18	....	1	1	1	2	1	....	*6*	....	....	....	....	....	6	8.3
Ages under 20 years: 19	....	....	2	....	2	....	....	*4*	....	....	....	....	....	4	5.6
Under 20	....	*1*	*4*	*4*	*5*	*4*	*2*	*20*	....	....	....	....	....	*21*	*29.2*
20 to 24	1	7	9	2	2	4	3	*28*	3	....	....	....	....	31	43.1
25 to 29	....	1	3	....	....	2	....	*6*	4	....	1	....	....	11	15.3
30 to 34	....	1	2	....	1	....	....	*4*	....	....	....	....	....	4	5.6
35 to 39	....	....	....	....	....	....	....	....	1	1	1	....	....	3	4.2
45 to 49	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1.4
60 to 64	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1.4
Total females	1	10	18	6	8	10	5	58	9	1	2	1	1	72	.....
Per cent	1.4	13.9	25.0	8.3	11.1	13.9	6.9	80.6	12.5	1.4	2.8	1.4	1.4	....	100.0

NOTE.—Figures in **bold face** indicate marriages at illegal ages, for one or both parties, under the general laws of the State. The seventy-two marriages performed by judges of probate in Michigan during the year 1908 were distributed by months as follows: Jauuary, 9; February, 6; March, 7; April, 7; May, 3; June, 5; July, 10; August, 5; September, 9; October, 3; November, 5 and December, 3. All were white, with the exception of one black couple. By nativity, there were fifty-nine couples both native born; three couples both foreign born; eight couples with foreign male and native female; one couple with native male and foreign female and one couple with the nativity of the male unknown and native female. These marriages were returned from thirty-eight counties, the largest number reported from a county being six. Seventy couples were residents of Michigan and two couples came from other states. They are not included in the preceding tables of marriages.

Digitized by Google

Digitized by Google

TABLES

RELATING TO

DIVORCES

AND

CAUSES OF DIVORCE

IN

MICHIGAN

DURING THE

YEAR 1908

Digitized by Google

Digitized by Google

PRIMARY TABLES RELATING TO DIVORCES AND CAUSES OF DIVORCE IN MICHIGAN DURING THE YEAR 1908.

TABLE I.—Divorce business in Michigan, by counties, during the year 1908, showing, according to the "Summaries" filed by county clerks, the number of bills for divorce pending at the beginning and end of the year, number filed during the year, number withdrawn or otherwise disposed of, number contested, and the number of divorces granted and refused.

TABLE II.—Divorces in Michigan, by counties and sex of complainant during the year 1908, showing place of marriage, number of children in family, and duration of marriage before divorce.

TABLE III.—Causes of divorce in Michigan, by sex of complainant, during the year 1908, showing place of marriage, number of children in family, and duration of marriage before divorce.

NOTE.—*Secondary tables*, containing divorce rates, etc., will be found on preceding pages of this Report, together with the descriptive text.

Digitized by Google

Table I.—Divorce business in Michigan, by counties, during the year 1908, showing, according to the "Summaries" filed by county clerks, the number of bills for divorce pending at the beginning and end of the year, number withdrawn or otherwise disposed of, number contested and the number of divorces granted and refused.

State and counties.	Number of bills pending on January 1, 1908.	Number of bills filed during 1908.	Number of divorces granted during 1908.	Number of divorces refused during 1908.	Number of cases, withdrawn, etc., during 1908.	Number of bills pending on December 31, 1908.	Total number of cases, 1908.	Number of cases contested during 1908.
STATE	10,556	4,823	3,020	19	275	12,065	15,379	446
Alcona	12	3	3	0	11	1	15	0
Alger	32	5	6	.....	.....	31	37	.....
Allegan	179	68	42	1	7	197	247	8
Alpena	69	17	10	.....	.....	76	86	.....
Antrim	40	28	16	0	.....	52	68	0
Arenac	18	15	5	1	.....	27	33	2
Baraga	15	5	5	0	0	15	20	1
Barry	69	46	29	1	18	67	115	2
Bay	131	83	65	0	2	147	214	13
Benzie	42	15	24	0	1	32	57	2
Berrien	268	117	76	.....	4	305	385	1
Branch	100	56	36	0	10	110	156	0
Calhoun	380	152	129	0	0	403	532	.....
Cass	81	45	28	0	.....	98	126	3
Charlevoix	87	40	26	0	0	101	127	.....
Cheboygan	41	27	18	0	3	47	68	5
Chippewa	83	30	20	.....	2	91	113	3
Clare	8	15	14	0	1	8	23	3
Clinton	158	48	29	0	8	169	206	2
Crawford	2	4	1	.....	.....	5	6	0
Delta	120	29	25	.....	.....	124	149	0
Dickinson	21	7	7	.....	1	20	28	.....
Eaton	87	89	53	.....	5	118	176	.....
Emmet	99	29	24	1	1	102	128	2
Genesee	412	140	75	.....	6	471	552	.....
Gladwin	28	4	3	0	0	29	32	0
Gogebic	77	13	12	0	1	77	90	0
Grand Traverse	130	63	30	0	1	162	193	1
Gratiot	153	65	48	0	0	170	218	10
Hillsdale	100	63	38	1	1	123	163	7
Houghton	85	28	22	1	8	82	113	5
Huron	30	31	13	0	9	39	61	3
Ingham	148	105	38	.....	1	214	253	.....
Ionia	225	79	45	0	0	259	304	6
Iosco	20	10	10	0	2	18	30	.....
Iron	19	12	9	0	0	22	31	0
Isabella	90	24	15	.....	3	96	114	2
Jackson	182	132	97	.....	3	214	314	.....
Kalamazoo	110	143	118	0	4	131	253	20
Kalkaska	43	15	16	.....	1	41	58	.....
Kent — Circuit	1,080	422	238	2	14	1,248	1,502	55
Kent — Superior	116	38	23	2	2	127	154	2
Keweenaw	2	0	0	0	0	2	2	.....
Lake	5	3	4	0	0	4	8	0
Lapeer	106	34	26	.....	4	110	140	3
Leelanau	7	4	4	0	0	7	11	0
Lenawee	240	102	73	1	10	258	342	2
Livingston	7	23	12	.....	2	16	30	1
Luce	0	3	1	0	0	2	3	0
Mackinac	14	8	0	0	0	22	22	0
Macomb	75	55	32	1	13	84	130	24
Manistee	56	20	10	0	0	66	76	1
Marquette	39	21	13	.....	1	46	60	.....
Mason	30	25	7	0	1	47	55	1
Mecosta	75	27	17	.....	2	83	102	1
Menominee	25	17	14	.....	1	27	42	2

Digitized by Google

Table I.—Concluded.—Divorce business in Michigan by counties during the year 1908: showing, according to the "Summaries" filed by county clerks, the number of bills for divorce pending at the beginning and end of the year, number withdrawn or otherwise disposed of, number contested, and the number of divorces granted and refused.

Counties.	Number of bills pending on January 1, 1908.	Number of bills filed during 1908.	Number of divorces granted during 1908.	Number of divorces refused during 1908.	Number of cases withdrawn, etc., during 1908.	Number of bills pending on December 31, 1908.	Total number of cases, 1908.	Number of cases contested, during 1908.
Midland	12	13	9	0	1	15	25	0
Missaukee	25	17	11	0	6	25	42	0
Monroe	10	33	24	.....	6	13	43	.....
Montcalm	117	67	44	0	3	137	184	3
Montmorency	6	4	2	0	0	8	10	.....
Muskegon	151	56	45	1	4	157	207	2
Newaygo	22	31	28	.....	.....	25	53	3
Oakland	188	75	37	.....	4	222	263	1
Oceana	62	27	19	0	0	70	89	0
Ogemaw	7	10	3	0	0	14	17	0
Ontonagon	4	2	2	.....	4	0	6	2
Osceola	50	26	11	1	.....	64	76	2
Oscoda	2	1	1	0	0	2	3	.....
Otsego	16	6	8	0	0	14	22	1
Ottawa	112	36	27	.....	6	115	148	8
Presque Isle	21	8	7	.....	2	20	29	0
Roscommon	1	9	4	0	0	6	10	.....
Saginaw	642	186	102	0	13	713	828	12
St. Clair	468	100	46	1	2	519	568	.....
St. Joseph	48	35	15	0	6	62	83	2
Sanilac	57	25	17	0	1	64	82	0
Schoolcraft	16	6	3	0	0	19	22	0
Shiawassee	208	84	39	0	5	248	292	26
Tuscola	43	54	28	0	2	67	97	7
Van Buren	166	54	52	.....	.....	168	220	17
Washtenaw	207	68	52	0	3	220	275	22
Wayne	1,957	1,036	597	4	36	2,356	2,993	136
Wexford	67	52	33	0	7	79	119	9

Digitized by Google

Table II.—Divorces in Michigan, by counties and sex of complainant, during the year before

State and counties.	Sex of complainants.	Complainants in divorces granted.	Place of marriage.						Number of								
			Michigan.	Ohio, Indiana and Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
STATE	Totals	3,020	2,316	156	234	214	40	60	1,579	607	374	154	98	45	38	16	9
	Males	804	589	41	91	50	13	20	486	143	90	41	19	11	11	2	....
	Females	2,216	1,727	115	143	164	27	40	1,093	554	284	113	79	34	27	14	9
Alcona	Totals	3	3	....	....	....	....	....	1	....	....	1	1	....	....	....	....
	Males	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	Females	2	2	....	....	....	....	....	....	....	....	1	1	....	....	....	....
Alger	Totals	6	6	....	....	....	....	....	2	3	1	....	....	....	....	....	....
	Males	3	3	....	....	....	....	....	2	1	....	....	....	....	....	....	....
	Females	3	3	....	....	....	....	....	....	2	1	....	....	....	....	....	....
Allegan	Totals	42	35	2	4	1	....	....	21	11	7	....	....	1	1	....	1
	Males	8	6	1	1	....	....	....	4	1	2	....	....	....	1	....	....
	Females	34	29	1	3	1	....	....	17	10	5	....	....	1	....	....	1
Alpena	Totals	10	9	....	1	....	....	....	4	3	2	....	1	....	....	....	....
	Males	4	4	....	....	....	....	....	2	2	....	....	....	....	....	....	....
	Females	6	5	....	1	....	....	....	2	1	2	....	1	....	....	....	....
Antrim	Totals	16	15	1	....	....	....	....	7	2	4	2	....	....	....	1	....
	Males	4	4	....	....	....	....	....	1	2	1	....	....	....	....	....	....
	Females	12	11	1	....	....	....	....	6	....	3	2	....	....	....	1	....
Arenac	Totals	5	5	....	....	....	....	....	....	2	1	1	....	....	1	....	....
	Males	2	2	....	....	....	....	....	....	....	1	1	....	....	....	....	....
	Females	3	3	....	....	....	....	....	....	2	....	....	....	....	1	....	....
Baraga	Totals	5	4	....	1	....	....	....	2	2	....	1	....	....	....	....	....
	Males	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....
	Females	4	3	....	1	....	....	....	2	2	....	....	....	....	....	....	....
Barry	Totals	29	26	....	2	....	....	1	12	5	4	2	2	....	2	1	....
	Males	13	10	....	2	....	....	1	5	2	2	1	2	....	1	....	....
	Females	16	16	....	....	....	....	....	7	3	2	1	....	....	1	1	....
Bay	Totals	65	55	2	4	2	1	1	23	15	14	3	4	1	2	....	3
	Males	14	11	1	1	....	....	1	7	3	....	2	1	....	1	....	....
	Females	51	44	1	3	2	1	....	16	12	14	1	3	1	2	....	3
Benzie	Totals	24	17	3	3	1	....	....	14	3	3	2	....	....	....	2	....
	Males	9	8	....	1	....	....	....	6	2	1	....	....	....	....	....	....
	Females	15	9	3	2	1	....	....	8	1	2	2	....	....	....	2	....
Berrien	Totals	76	55	6	14	1	....	....	45	17	7	2	....	3	1	1	....
	Males	13	8	....	5	....	....	....	8	3	2	....	....	....	....	....	....
	Females	63	47	6	9	1	....	....	37	14	5	2	....	3	1	1	....
Branch	Totals	36	26	5	1	....	....	4	23	8	2	1	1	....	....	....	....
	Males	9	7	2	....	....	....	....	8	....	1	....	....	....	....	....	....
	Females	27	19	3	1	....	....	4	15	8	1	1	1	....	....	....	....
Calhoun	Totals	129	109	7	8	3	....	2	83	28	14	1	1	1	1	....	....
	Males	34	28	2	3	....	....	1	25	6	2	1	....	....	....	....	....
	Females	95	81	5	5	3	....	1	58	22	12	....	1	1	1	....	....
Cass	Totals	28	22	3	3	....	....	....	18	3	6	1	....	....	....	....	....
	Males	6	3	1	2	....	....	....	6	....	....	....	....	....	....	....	....
	Females	22	19	2	1	....	....	....	12	3	6	1	....	....	....	....	....
Charlevoix	Totals	26	18	....	3	1	....	4	12	4	4	3	1	....	1	....	....
	Males	8	6	....	....	....	....	2	3	2	....	2	1	....	....	....	....
	Females	18	12	....	3	1	....	2	9	2	4	1	....	....	1	....	....
Cheboygan	Totals	18	16	....	1	....	....	1	8	6	4	....	....	....	....	....	....
	Males	2	2	....	....	....	....	....	....	1	1	....	....	....	....	....	....
	Females	16	14	....	1	....	....	1	8	5	3	....	....	....	....	....	....

Digitized by Google

1908, showing place of marriage, number of children in family, and duration of marriage divorce.

children in family.				Duration of marriage before divorce.															
9.	10.	11.	Unknown.	Under one year.	1.	2.	3.	4.	Under five years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	Unknown.
1	5	1	3	74	214	240	260	267	1,055	835	451	256	199	117	61	22	9	4	1	10
....	1	....	....	22	56	64	72	73	287	230	109	64	51	28	19	6	4	....	1	5
1	4	1	3	52	158	176	188	194	768	605	342	192	148	89	42	16	5	4	....	5
....	....	....	....	....	....	....	....	1	1	2	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	1	1	2	4	2	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	1	....	1	2	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	1	....	2	3	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	3	3	3	5	2	16	16	5	1	1	1	1	1	....	....	....	....
....	....	....	....	....	....	....	....	1	1	2	3	1	1	....	....	....	....	....	....	....
....	....	....	....	3	3	3	5	1	15	14	2	....	....	1	1	1	....	....	....	....
....	....	....	....	....	....	1	....	1	2	5	2	....	1	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	1	3	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	1	....	....	1	2	2	....	1	....	....	....	....	....	....	....
....	....	....	....	....	1	....	2	....	3	8	....	2	....	2	1	....	....	....	....	....
....	....	....	....	....	1	....	1	....	2	1	....	1	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	1	....	1	7	....	1	....	2	1	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	1	1	1	2	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	....	....	....
....	....	....	....	....	1	....	....	....	1	3	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	1	....	....	....	1	2	1	....	....	....	....	....	....	....	....	....
....	1	....	....	....	....	3	2	1	6	7	6	4	2	1	2	....	1	....	....	....
....	....	....	....	....	....	....	....	1	1	5	3	2	....	....	1	....	1	....	....	....
....	1	....	....	....	....	3	2	....	5	2	3	2	2	1	1	....	....	....	....	....
....	....	....	....	1	1	1	6	10	19	17	12	4	4	2	4	1	2	....	....	....
....	....	....	....	1	....	....	1	4	6	3	1	....	2	....	1	....	1	....	....	....
....	....	....	....	....	1	1	5	6	13	14	11	4	2	2	3	1	1	....	....	....
....	....	....	....	....	1	3	1	2	7	11	3	1	1	....	1	....	....	....	....	....
....	....	....	....	....	....	2	1	1	4	4	....	....	1	....	....	....	....	....	....	....
....	....	....	....	....	1	1	....	1	3	7	3	1	....	....	1	....	....	....	....	....
....	....	....	....	5	9	7	7	....	28	19	9	9	5	2	2	1	1	....	....	....
....	....	....	....	....	....	1	2	....	3	3	1	4	1	....	....	1	....	....	....	....
....	....	....	....	5	9	6	5	....	25	16	8	5	4	2	2	....	1	....	....	....
....	....	....	1	3	2	5	4	3	17	9	7	1	1	....	....	....	....	....	....	1
....	....	....	....	....	1	3	....	2	6	2	1	....	....	....	....	....	....	....	....	....
....	....	....	1	3	1	2	4	1	11	7	6	1	1	....	....	....	....	....	....	1
....	....	....	....	2	14	9	13	12	50	35	17	7	14	2	3	....	....	....	....	1
....	....	....	....	1	3	2	4	4	14	7	3	1	5	2	1	....	....	....	....	1
....	....	....	....	1	11	7	9	8	36	28	14	6	9	....	2	....	....	....	....	....
....	....	....	....	1	4	4	....	2	11	6	6	1	2	2	....	....	....	....	....	....
....	....	....	....	1	....	1	....	1	3	2	....	1	....	....	....	....	....	....	....	....
....	....	....	....	....	4	3	....	1	8	4	6	....	2	2	....	....	....	....	....	....
....	....	....	1	....	2	2	....	3	7	6	1	3	6	1	2	....	....	....	....	....
....	....	....	....	....	2	....	....	....	2	1	1	1	2	1	....	....	....	....	....	....
....	....	....	1	....	....	2	....	3	5	5	....	2	4	....	2	....	....	....	....	....
....	....	....	....	1	1	3	....	4	9	5	1	2	1	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	1	....	....	1	....	....	....	....	....	....	....	....
....	....	....	....	1	1	3	....	3	8	5	1	1	1	....	....	....	....	....	....	....

Digitized by Google

Table II.—Continued.—Divorces in Michigan, by counties and sex of complainant duration of marriage

State and counties.	Sex of complainants.	Complainants in divorces granted.	Place of marriage.						Number of								
			Michigan.	Ohio, Indiana and Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Chippewa	Totals	20	7	2	2	8	1	....	8	7	3	....	....	1	....	1	....
	Males	6	1	1	1	2	1	....	3	1	1	....	....	....	....	1	....
	Females	14	6	1	1	6	....	....	5	6	2	....	....	1	....	....	....
Clare	Totals	14	11	1	....	2	....	....	7	4	1	1	....	1	....	....	....
	Males	3	2	....	....	1	....	....	....	1	1	1	....	....	....	....	....
	Females	11	9	1	....	1	....	....	7	3	....	....	....	1	....	....	....
Clinton	Totals	29	27	....	2	....	....	....	17	8	3	....	1	....	....	....	....
	Males	11	10	....	1	....	....	....	8	2	1	....	....	....	....	....	....
	Females	18	17	....	1	....	....	....	9	6	2	....	1	....	....	....	....
Crawford	Totals	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	Males	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Delta	Totals	25	21	1	1	....	2	....	12	4	2	2	4	1	....	....	....
	Males	10	6	1	1	....	2	....	6	2	....	1	....	1	....	....	....
	Females	15	15	....	....	....	....	....	6	2	2	1	4	....	....	....	....
Dickinson	Totals	7	5	....	....	....	....	2	1	4	....	2	....	....	....	....	....
	Males	1	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....
	Females	6	4	....	....	....	....	2	1	3	....	2	....	....	....	....	....
Eaton	Totals	53	47	1	3	1	....	1	32	8	4	6	2	1	....	....	....
	Males	14	12	....	2	....	....	....	12	....	1	1	....	....	....	....	....
	Females	39	35	1	1	1	....	1	20	8	3	5	2	1	....	....	....
Emmet	Totals	24	21	....	1	....	....	2	11	7	1	3	2	....	....	....	....
	Males	7	6	....	....	....	....	1	4	1	1	1	....	....	....	....	....
	Females	17	15	....	1	....	....	1	7	6	....	2	2	....	....	....	....
Genesee	Totals	75	63	2	3	7	....	....	43	15	12	3	1	1	....	....	....
	Males	20	17	1	1	1	....	....	14	4	2	....	....	....	....	....	....
	Females	55	46	1	2	6	....	....	29	11	10	3	1	1	....	....	....
Gladwin	Totals	3	3	....	....	....	....	....	....	1	1	....	1	....	....	....	....
	Males	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	3	3	....	....	....	....	....	....	1	1	....	1	....	....	....	....
Gogebic	Totals	12	6	....	4	....	2	....	5	4	1	....	2	....	....	....	....
	Males	2	....	....	1	....	1	....	1	....	1	....	....	....	....	....	....
	Females	10	6	....	3	....	1	....	4	4	....	....	2	....	....	....	....
Grand Traverse	Totals	30	25	2	3	....	....	....	15	11	2	1	....	1	....	....	....
	Males	5	5	....	....	....	....	....	4	....	....	....	....	1	....	....	....
	Females	25	20	2	3	....	....	....	11	11	2	1	....	....	....	....	....
Gratiot	Totals	48	40	3	1	2	1	1	25	8	10	1	2	....	2	....	....
	Males	11	10	1	....	....	....	....	8	1	1	....	1	....	....	....	....
	Females	37	30	2	1	2	1	1	17	7	9	1	1	....	2	....	....
Hillsdale	Totals	38	35	2	1	....	....	....	18	11	8	1	....	....	....	....	....
	Males	11	9	1	1	....	....	....	4	3	3	1	....	....	....	....	....
	Females	27	26	1	....	....	....	....	14	8	5	....	....	....	....	....	....
Houghton	Totals	22	14	2	1	1	1	3	12	2	3	3	1	1	....	....	....
	Males	8	4	1	1	1	1	....	5	....	1	....	1	1	....	....	....
	Females	14	10	1	....	....	....	3	7	2	2	3	....	....	....	....	....
Huron	Totals	13	11	....	1	1	....	....	6	4	1	....	....	....	....	....	1
	Males	7	6	....	1	....	....	....	5	1	1	....	....	....	....	....	....
	Females	6	5	....	....	1	....	....	1	3	....	....	....	....	....	....	1
Ingham	Totals	38	36	....	1	....	....	1	15	15	2	3	2	1	....	....	....
	Males	17	15	....	1	....	....	1	8	5	1	1	1	1	....	....	....
	Females	21	21	....	....	....	....	....	7	10	1	2	1	....	....	....	....

Digitized by Google

during the year 1903, showing place of marriage, number of children in family, and before divorce.

children in family.				Duration of marriage before divorce.																
9.	10.	11.	Unknown.	Under one year.	1.	2.	3.	4.	Under five years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	Unknown.
....	....	....	....	....	....	1	2	....	3	6	7	1	1	2	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	1	3	....	....	2	....	....	....	....	....	....
....	....	....	....	....	....	1	2	....	3	5	4	1	1	....	....	....	....	....	....	....
....	....	....	....	....	....	1	2	2	5	3	2	2	....	1	1	....	....	....	....	....
....	....	....	....	....	....	....	....	1	1	1	....	....	....	1	....	....	....	....	....	....
....	....	....	....	....	....	1	2	1	4	2	2	2	....	....	1	....	....	....	....	....
....	....	....	....	....	2	5	8	1	16	6	2	2	1	2	....	....	....	....	....	....
....	....	....	....	....	1	1	3	....	5	3	2	....	....	1	....	....	....	....	....	....
....	....	....	....	....	1	4	5	1	11	3	....	2	1	1	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	3	3	2	3	11	2	6	4	1	1	....	....	....	....	....	....
....	....	....	....	....	....	1	1	2	4	....	3	1	1	1	....	....	....	....	....	....
....	....	....	....	....	3	2	1	1	7	2	3	3	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	1	....	1	3	....	....	2	1	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	1	....	1	2	....	....	2	1	....	....	....	....	....	....
....	....	....	....	1	5	3	2	10	21	12	4	6	2	3	3	....	1	....	....	1
....	....	....	....	1	1	2	....	3	7	3	1	1	1	....	1	....	....	....	....	....
....	....	....	....	....	4	1	2	7	14	9	3	5	1	3	2	....	1	....	....	1
....	....	....	....	1	3	2	2	....	8	5	4	2	3	1	1	....	....	....	....	....
....	....	....	....	....	1	....	2	....	3	1	1	2	....	....	....	....	....	....	....	....
....	....	....	....	1	2	2	....	....	5	4	3	....	3	1	1	....	....	....	....	....
....	....	....	....	3	7	3	6	14	33	19	12	7	3	1	....	....	....	....	....	....
....	....	....	....	....	2	1	4	4	11	4	1	3	....	1	....	....	....	....	....	....
....	....	....	....	3	5	2	2	10	22	15	11	4	3	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....	....
....	....	....	....	....	2	1	1	1	5	4	3	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	2	1	....	1	4	3	3	....	....	....	....	....	....	....	....	....
....	....	....	....	....	2	3	6	2	13	10	2	2	2	....	....	1	....	....	....	....
....	....	....	....	....	....	....	2	1	3	1	....	....	....	....	....	1	....	....	....	....
....	....	....	....	....	2	3	4	1	10	9	2	2	2	....	....	....	....	....	....	....
....	....	....	....	1	2	7	1	6	17	13	7	6	1	....	2	2	....	....	....	....
....	....	....	....	....	....	1	....	2	3	5	3	....	....	....	....	....	....	....	....	....
....	....	....	....	1	2	6	1	4	14	8	4	6	1	....	2	2	....	....	....	....
....	....	....	....	....	5	3	2	4	14	13	4	2	3	1	1	....	....	....	....	....
....	....	....	....	....	1	1	....	....	2	8	....	....	....	....	1	....	....	....	....	....
....	....	....	....	....	4	2	2	4	12	5	4	2	3	1	....	....	....	....	....	....
....	....	....	....	....	1	3	3	....	7	9	5	1	....	....	....	....	....	....	....	....
....	....	....	....	....	....	1	1	....	2	3	3	....	....	....	....	....	....	....	....	....
....	....	....	....	....	1	2	2	....	5	6	2	1	....	....	....	....	....	....	....	....
1	....	....	....	....	1	1	....	....	2	5	2	2	1	....	....	1	....	....	....	....
....	....	....	....	....	1	1	....	....	2	2	1	2	....	....	....	....	....	....	....	....
1	....	....	....	....	....	....	....	....	....	3	1	....	1	....	....	1	....	....	....	....
....	....	....	....	1	1	2	1	3	8	9	7	6	3	3	2	....	....	....	....	....
....	....	....	....	1	....	....	1	3	5	5	....	2	3	1	1	....	....	....	....	....
....	....	....	....	....	1	2	....	....	3	4	7	4	....	2	1	....	....	....	....	....

Digitized by Google

Table II.—Continued.—Divorces in Michigan, by counties and sex of complainant, duration of marriage

Counties.	Sex of complainants.	Complainants in divorces granted.	Place of marriage.						Number of								
			Michigan.	Ohio, Indiana and Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Ionia	Totals	45	41	1	2	....	....	1	32	7	2	....	2	1	1	....	....
	Males	15	13	....	2	....	....	....	14	....	....	....	....	....	1	....	....
	Females	30	28	1	....	....	....	1	18	7	2	....	2	1	....	....	....
Iosco	Totals	10	10	....	....	....	....	....	5	2	2	1	....	....	....	....	....
	Males	3	3	....	....	....	....	....	2	....	1	....	....	....	....	....	....
	Females	7	7	....	....	....	....	....	3	2	1	1	....	....	....	....	....
Iron	Totals	9	6	....	1	....	....	2	5	2	....	1	....	....	1	....	....
	Males	4	3	....	1	....	....	....	2	1	....	....	....	....	1	....	....
	Females	5	3	....	....	....	....	2	3	1	....	1	....	....	....	....	....
Isabella	Totals	15	11	....	2	1	....	1	9	1	2	1	....	1	1	....	....
	Males	7	5	....	....	1	....	1	3	1	1	1	....	1	....	....	....
	Females	8	6	....	2	....	....	....	6	....	1	....	....	....	1	....	....
Jackson	Totals	97	79	4	8	6	....	....	57	21	9	5	3	....	2	....	....
	Males	30	22	2	3	3	....	....	20	6	1	1	1	....	1	....	....
	Females	67	57	2	5	3	....	....	37	15	8	4	2	....	1	....	....
Kalamazoo	Totals	118	88	10	14	3	1	2	62	25	13	7	4	3	2	2	....
	Males	31	22	1	6	1	....	1	17	7	2	3	1	....	1	....	....
	Females	87	66	9	8	2	1	1	45	18	11	4	3	3	1	2	....
Kalkaska	Totals	16	13	2	1	....	....	....	7	4	3	1	1	....	....	....	....
	Males	4	3	1	....	....	....	....	2	1	1	....	....	....	....	....	....
	Females	12	10	1	1	....	....	....	5	3	2	1	1	....	....	....	....
Kent	Totals	261	224	10	16	1	4	6	152	59	18	19	7	2	2	....	....
	Males	58	44	3	5	....	2	4	34	10	6	5	1	1	1	....	....
	Females	203	180	7	11	1	2	2	118	49	12	14	6	1	1	....	....
Keweenaw	Totals	0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Males	0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lake	Totals	4	3	1	....	....	....	....	2	1	....	....	....	....	1	....	....
	Males	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	4	3	1	....	....	....	....	2	1	....	....	....	....	1	....	....
Lapeer	Totals	26	23	....	1	1	....	1	8	12	3	1	2	....	....	....	....
	Males	4	3	....	1	....	....	....	3	....	....	1	....	....	....	....	....
	Females	22	20	....	....	1	....	1	5	12	3	....	2	....	....	....	....
Leelanau	Totals	4	4	....	....	....	....	....	1	2	....	1	....	....	....	....	....
	Males	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	4	4	....	....	....	....	....	1	2	....	1	....	....	....	....	....
Lenawee	Totals	73	51	15	3	2	....	2	40	18	9	1	2	3	....	....	....
	Males	16	13	3	....	....	....	....	13	1	1	....	....	1	....	....	....
	Females	57	38	12	3	2	....	2	27	17	8	1	2	2	....	....	....
Livingston	Totals	12	10	....	1	1	....	....	5	3	3	1	....	....	....	....	....
	Males	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....
	Females	11	10	....	....	1	....	....	4	3	3	1	....	....	....	....	....
Luce	Totals	1	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....
	Males	1	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....
	Females	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Mackinac	Totals	0	0	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Males	0	0	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females	0	0	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Macomb	Totals	32	21	....	2	7	2	....	18	6	2	3	1	1	1	....	....
	Males	8	6	....	1	1	....	....	5	2	1	....	....	....	....	....	....
	Females	24	15	....	1	6	2	....	13	4	1	3	1	1	1	....	....

Digitized by Google

during the year 1906, showing place of marriage, number of children in family, and before divorce.

children in family.				Duration of marriage before divorce.																
9.	10.	11.	Unknown.	Under one year.	1.	2.	3.	4.	Under five years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	Unknown.
....	....	....	....	3	2	1	6	5	17	15	5	3	3	1	1	....	....	....	....	....
....	....	....	....	1	2	....	3	1	7	5	....	1	1	....	1	....	....	....	....	....
....	....	....	....	2	....	1	3	4	10	10	5	2	2	1	....	....	....	....	....	....
....	....	....	....	....	....	2	3	2	7	2	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	2	1	3	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	2	1	1	4	2	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	2	1	....	....	3	2	2	1	1	....	....	....	....	....	....	....
....	....	....	....	....	1	....	....	....	1	1	1	....	1	....	....	....	....	....	....	....
....	....	....	....	....	1	1	....	....	2	1	1	1	....	....	....	....	....	....	....	....
....	....	....	....	....	3	1	2	2	8	2	1	....	3	....	....	....	....	....	....	1
....	....	....	....	....	1	1	....	....	2	2	....	....	2	....	....	....	....	....	....	1
....	....	....	....	....	2	....	2	2	6	....	1	....	1	....	....	....	....	....	....	....
....	....	....	....	2	5	7	11	8	33	29	16	7	9	1	2	....	....	....	....	....
....	....	....	....	....	1	2	3	3	9	9	4	1	6	....	1	....	....	....	....	....
....	....	....	....	2	4	5	8	5	24	20	12	6	3	1	1	....	....	....	....	....
....	....	....	....	3	5	9	8	7	32	34	15	10	8	4	3	....	....	1	1	....
....	....	....	....	....	1	4	1	1	7	10	6	2	2	2	1	....	....	....	1	....
....	....	....	....	3	4	5	7	6	25	24	19	8	6	2	2	....	....	1	....	....
....	....	....	....	....	1	2	2	....	5	3	5	1	....	1	1	....	....	....	....	....
....	....	....	....	....	1	....	1	....	2	1	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	2	1	....	3	2	4	1	....	1	1	....	....	....	....	....
....	2	....	....	7	30	22	23	22	104	73	30	19	16	10	4	3	....	....	....	2
....	....	....	....	4	8	5	6	4	27	12	5	5	3	3	2	1	....	....	....	....
....	2	....	....	3	22	17	17	18	77	61	25	14	13	7	2	2	....	....	....	2
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	1	1	1	....	....	1	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	1	1	1	....	....	1	....	....	....	....	....	....
....	....	....	....	2	1	1	1	1	6	8	7	3	1	1	....	....	....	....	....	....
....	....	....	....	1	....	....	1	....	2	1	....	1	....	....	....	....	....	....	....	....
....	....	....	....	1	1	1	....	1	4	7	7	2	1	1	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	2	1	....	1	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	2	1	....	1	....	....	....	....	....	....	....
....	....	....	....	3	3	9	8	9	32	12	16	2	2	5	1	2	....	1	....	....
....	....	....	....	2	1	3	1	2	9	1	2	1	1	2	....	....	....	....	....	....
....	....	....	....	1	2	6	7	7	23	11	14	1	1	3	1	2	....	1	....	....
....	....	....	....	....	1	1	....	1	3	5	1	2	1	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	1	1	....	....	2	5	1	2	1	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
....	....	....	....	....	1	2	4	4	11	6	6	3	2	1	2	1	....	....	....	....
....	....	....	....	....	1	1	....	....	2	1	3	2	....	....	....	....	....	....	....	....
....	....	....	....	....	....	1	4	4	9	5	3	1	2	1	2	1	....	....	....	....

Digitized by Google

Table II.—Continued.—Divorces in Michigan, by counties and sex of complainant duration of marriage

Counties.	Sex of complainants.	Complainants in divorces granted.	Place of marriage.						Number of								
			Michigan.	Ohio, Indiana and Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.	7.	8.
Manistee	Totals	10	10	....	....	....	....	....	4	3	2	1	....	....	....	....	....
	Males	2	2	....	....	....	....	....	2	....	....	....	....	....	....	....	....
	Females	8	8	....	....	....	....	....	2	3	2	1	....	....	....	....	....
Marquette	Totals	13	12	....	1	....	....	....	8	1	2	....	1	....	1	....	....
	Males	4	3	....	1	....	....	....	3	....	1	....	....	....	....	....	....
	Females	9	9	....	....	....	....	....	5	1	1	....	1	....	1	....	....
Mason	Totals	7	5	....	....	....	....	2	3	1	1	....	1	....	....	1	....
	Males	4	2	....	....	....	....	2	3	....	....	....	1	....	....	....	....
	Females	3	3	....	....	....	....	....	....	1	1	....	....	....	....	1	....
Mecosta	Totals	17	14	1	1	1	....	....	9	3	5	....	....	....	....	....	....
	Males	7	6	1	....	....	....	....	5	1	1	....	....	....	....	....	....
	Females	10	8	....	1	1	....	....	4	2	4	....	....	....	....	....	....
Menominee	Totals	14	8	2	1	....	2	1	5	5	1	2	1	....	....	....	....
	Males	4	3	....	1	....	....	....	3	....	....	1	....	....	....	....	....
	Females	10	5	2	....	....	2	1	2	5	1	1	1	....	....	....	....
Midland	Totals	9	8	....	....	1	....	....	4	2	1	....	1	....	1	....	....
	Males	5	5	....	....	....	....	....	2	1	1	....	1	....	....	....	....
	Females	4	3	....	....	1	....	....	2	1	....	....	....	....	1	....	....
Missaukee	Totals	11	10	....	1	....	....	....	5	1	3	1	....	....	....	....	1
	Males	5	5	....	....	....	....	....	3	1	....	1	....	....	....	....	....
	Females	6	5	....	1	....	....	....	2	....	3	....	....	....	....	....	1
Monroe	Totals	24	15	7	1	1	....	....	12	5	4	2	1	....	....	....	....
	Males	7	5	1	....	1	....	....	5	1	....	....	1	....	....	....	....
	Females	17	10	6	1	....	....	....	7	4	4	2	....	....	....	....	....
Montcalm	Totals	44	37	3	1	....	....	3	25	8	7	3	1	....	....	....	....
	Males	13	11	2	....	....	....	....	10	1	2	....	....	....	....	....	....
	Females	31	26	1	1	....	....	3	15	7	5	3	1	....	....	....	....
Montmorency	Totals	2	2	....	....	....	....	....	1	1	....	....	....	....	....	....	....
	Males	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	Females	1	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Muskegon	Totals	45	37	1	5	....	....	2	22	7	9	1	3	1	1	....	1
	Males	14	10	....	4	....	....	....	6	3	4	....	1	....	....	....	....
	Females	31	27	1	1	....	....	2	16	4	5	1	2	1	1	....	1
Newaygo	Totals	28	21	....	2	....	....	5	15	5	3	2	2	....	....	....	....
	Males	11	9	....	....	....	....	2	8	....	1	1	1	....	....	....	....
	Females	17	12	....	2	....	....	3	7	5	2	1	1	....	....	....	....
Oakland	Totals	37	31	1	1	4	....	....	19	9	6	2	1	....	....	....	....
	Males	7	7	....	....	....	....	....	3	2	2	....	....	....	....	....	..
	Females	30	24	1	1	4	....	....	16	7	4	2	1	....	....	....	....
Oceana	Totals	19	18	1	....	....	....	....	10	1	3	3	1	....	1	....	....
	Males	7	7	....	....	....	....	....	5	....	1	1	....	....	....	....	....
	Females	12	11	1	....	....	....	....	5	1	2	2	1	....	1	....	....
Ogemaw	Totals	3	3	....	....	....	....	....	....	2	....	....	....	....	....	....	....
	Males	1	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....
	Females	2	2	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Ontonagon	Totals	2	1	....	....	....	....	1	1	....	1	....	....	....	....	....	....
	Males	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	Females	1	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....
Osceola	Totals	11	10	....	....	....	....	1	5	2	2	1	1	....	....	....	....
	Males	3	3	....	....	....	....	....	2	....	1	....	....	....	....	....	....
	Females	8	7	....	....	....	....	1	3	2	1	1	1	....	....	....	....

Digitized by Google

during the year 1908, showing place of marriage, number of children in family and before divorce.

children in family.				Duration of marriage before divorce.																
9.	10.	11.	Unknown.	Under one year.	1.	2.	3.	4.	Under five years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	Unknown.
						2			2	2	5	1								
											2									
						2			2	2	3	1								
					1	2		2	5	2	4	2								
					1			1	2		2									
						2		1	3	2	2	2								
							2		2	3		1		1						
							2		2	1		1								
										2				1						
						1	1	3	5	7	2	2			1					
										4	2	1								
						1	1	3	5	3		1			1					
					1	1		2	4	4	1	4		1						
					1				1	1	1	1								
						1		2	3	3		3		1						
					1	1			2	3		1	1		1	1				
										2		1	1			1				
					1	1			2	1					1					
					2	1	1		4	2	1	1	1	2						
					1	1	1		3	1	1									
					1				1	1		1	1	2						
				2	3	2	2	2	11	5	2	3	1	2						
						1	1		2	2		2		1						
				2	3	1	1	2	9	3	2	1	1	1						
				1	2	7	6	3	19	15	3	3	2	2						
						2	1	3	6	6			1							
				1	2	5	5		13	9	3	3	1	2						
							1		1	1										
										1										
							1		1											
					5	2	5	2	14	8	9	5	3	3	1	1				1
						1	1	1	3	3	4	2	1							1
					5	1	4	1	11	5	5	3	2	3	1	1				
		1		1	1	3	5	2	12	5	5	1	2	1	1					1
						2	3		5		3		1	1						1
		1		1	1	1	2	2	7	5	2	1	1		1					
				1		2	5	4	12	11	8		2	2	2					
										4			1		2					
				1		2	5	4	12	7	8		1	2						
						2	1	2	5	8	2	3						1		
						2			2	4		1								
							1	2	3	4	2	2						1		
	1									1		1	1							
										1										
	1											1	1							
					1				1		1									
					1				1											
											1									
								1	1	5	3		1			1				
										2	1									
								1	1	3	2		1			1				

Digitized by Google

Table III.—Causes of divorce in Michigan, by sex of complainant, during the year before

Causes alleged in petitions for divorces granted in 1908.	Sex of complainant.	Complainants in divorces granted, 1908.	Place of marriage.						Number of						
			Michigan.	Ohio, Indiana and Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.
ALL CAUSES	Totals	3,020	2,316	156	234	214	40	60	1579	697	374	154	98	45	38
	Males	804	589	41	91	50	13	20	486	143	90	41	19	11	11
	Females	2,216	1,727	115	143	164	27	40	1093	554	284	113	79	34	27
Adultery	Totals	46	40	3	1	2			21	10	11	4			
	Males	36	31	2	1	2			18	6	9	3			
	Females	10	9	1					3	4	2	1			
Adultery and cruelty	Totals	10	10						9				1		
	Males	7	7						7						
	Females	3	3						2				1		
Adultery, cruelty and drunkenness	Totals	1	1							1					
	Males														
	Females	1	1							1					
Adultery, cruelty and non-support	Totals	2			1	1				2					
	Males														
	Females	2			1	1				2					
Adultery and desertion	Totals	3	2				1		1	2					
	Males	3	2				1		1	2					
	Females														
Adultery, desertion and drunkenness	Totals	1	1								1				
	Males	1	1								1				
	Females														
Adultery desertion and non-support	Totals	1	1						1						
	Males														
	Females	1	1						1						
Adultery and non-support	Totals	2	2						1			1			
	Males														
	Females	2	2						1			1			
Annulled marriage	Totals	5	3			2			4		1				
	Males	3	2			1			2		1				
	Females	2	1			1			2						
Bigamy	Totals	6	6						5	1					
	Males	2	2						2						
	Females	4	4						3	1					
Cruelty	Totals	1,250	977	66	92	71	17	27	644	287	148	67	47	23	16
	Males	425	321	24	41	21	4	14	249	79	44	28	10	7	6
	Females	825	656	42	51	50	13	13	395	208	104	39	37	16	10
Cruelty and desertion	Totals	75	44	4	12	12	1	2	36	18	8	7	2	1	2
	Males	30	12		9	7		2	14	6	5	2	1	1	
	Females	45	32	4	3	5	1		22	12	3	5	1		2
Cruelty, desertion and drunkenness	Totals	1	1							1					
	Males														
	Females	1	1							1					
Cruelty, desertion, drunkenness and non-support	Totals	1	1							1					
	Males														
	Females	1	1							1					
Cruelty, desertion and non-support	Totals	14	11		2	1			4	4	4	2			
	Males														
	Females	14	11		2	1			4	4	4	2			
Cruelty and drunkenness	Totals	70	57	4	2	4	1	2	29	10	14	5	6	3	2
	Males	5	4	1					3		2				
	Females	65	53	3	2	4	1	2	26	10	12	5	6	3	2

Digitized by Google

1908, showing place of marriage, number of children in family and duration of marriage divorce.

children in family.						Duration of marriage before divorce.																
7.	8.	9.	10.	11.	Unknown.	Under one year.	1.	2.	3.	4.	Under five years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	Unknown.
16	9	1	5	1	3	74	214	240	260	267	1055	835	451	256	199	117	61	22	9	4	1	10
2	...	...	1	...	...	22	56	64	72	73	287	230	109	64	51	28	19	6	4	...	1	5
14	9	1	4	1	3	52	158	176	188	194	768	605	342	192	148	89	42	16	5	4	...	5
...	...	...	...	...	...	1	2	4	2	5	14	15	11	5	...	1	...	...	...	...	...	...
...	...	...	...	...	...	1	...	3	2	5	11	13	7	5	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	2	1	...	...	3	2	4	...	...	1	...	...	...	...	...	...
...	...	...	...	...	...	...	1	2	...	...	3	3	1	2	1	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	2	...	...	2	3	1	1	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	1	...	...	...	1	...	...	1	1	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	1	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	1	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	2	1	...	...	...	3	1	1	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	1	1	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	1	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	2	...	1	...	3	2	...	...	...	...	...	...	1	...	...	...
...	...	...	...	...	...	...	1	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	1	...	...	...	1	2	...	...	...	...	...	...	1	...	...	...
7	6	1	2	1	1	45	119	102	107	103	476	329	167	103	93	41	23	13	1	1	...	3
1	...	...	1	...	...	17	51	40	31	29	168	115	53	30	28	14	9	5	1	...	...	2
6	6	1	1	1	1	28	68	62	76	74	308	214	114	73	65	27	14	8	...	1	...	1
1	...	...	...	...	...	3	1	6	7	5	22	23	10	2	6	8	3	1	...	...	...	...
1	...	...	...	...	...	...	...	3	2	2	7	10	4	1	1	4	3	...	...	...	...	...
...	...	...	...	...	...	3	1	3	5	3	15	13	6	1	5	4	...	1	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	5	5	1	1	2	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	5	5	1	1	2	...	...	...	...	...	...
...	...	...	1	...	...	2	3	3	6	5	19	13	13	11	5	5	3	...	1	...	...	...
...	...	...	...	...	...	...	...	...	1	1	2	...	1	1	...	1	...	...	...	...	...	...
...	...	...	1	...	...	2	3	3	5	4	17	13	12	10	5	4	3	...	1	...	...	...

Digitized by Google

Table III.—Continued.—Causes of divorce in Michigan, by sex of complainant, during marriage

Causes alleged in petitions for divorces granted in 1908.	Sex of complainant.	Complainants in divorces granted, 1908.	Place of marriage.						Number of						
			Michigan.	Ohio, Indiana and Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.
Cruelty, drunkenness and infidelity.	Totals...	1	1	....	....	....	....	....	1	....	....	....	....	....	....
	Males...	1	1	....	....	....	....	....	1	....	....	....	....	....	....
	Females.	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cruelty, drunkenness and non-support	Totals...	32	21	2	4	3	1	1	20	8	1	1	1	1	....
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	32	21	2	4	3	1	1	20	8	1	1	1	1	....
Cruelty and fraud	Totals...	1	1	....	....	....	....	....	1	....	....	....	....	....	....
	Males...	1	1	....	....	....	....	....	1	....	....	....	....	....	....
	Females.	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cruelty and immorality	Totals...	1	....	....	....	1	....	....	....	....	1	....	....	....	....
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	1	....	....	....	1	....	....	....	....	1	....	....	....	....
Cruelty and imprisonment	Totals...	1	....	1	....	....	....	....	1	....	....	....	....	....	....
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	1	....	1	....	....	....	....	1	....	....	....	....	....	....
Cruelty and infidelity	Totals...	2	1	....	....	1	....	....	2	....	....	....	....	....	....
	Males...	1	1	....	....	....	....	....	1	....	....	....	....	....	....
	Females.	1	....	....	....	1	....	....	1	....	....	....	....	....	....
Cruelty and non-support	Totals...	378	287	17	25	42	1	6	198	95	39	21	11	5	5
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	378	287	17	25	42	1	6	198	95	39	21	11	5	5
Desertion	Totals...	532	386	33	64	26	10	13	298	106	67	25	15	8	9
	Males...	273	194	14	40	15	7	3	177	49	25	8	6	3	5
	Females.	259	192	19	24	11	3	10	121	57	42	17	9	5	4
Desertion and drunkenness	Totals...	4	3	....	1	....	....	....	....	....	1	1	1	....	1
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	4	3	....	1	....	....	....	....	....	1	1	1	....	1
Desertion, drunkenness and non-support	Totals...	3	3	....	....	....	....	....	1	2	....	....	....	....	....
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	3	3	....	....	....	....	....	1	2	....	....	....	....	....
Desertion and infidelity	Totals...	1	....	....	....	....	1	....	....	....	1	....	....	....	....
	Males...	1	....	....	....	....	1	....	....	....	1	....	....	....	....
	Females.	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Desertion and non-support	Totals...	120	88	4	9	15	3	1	58	35	12	5	4	3	1
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	120	88	4	9	15	3	1	58	35	12	5	4	3	1
Drunkenness	Totals...	43	36	3	1	1	....	2	24	7	7	1	3	....	....
	Males...	5	3	....	....	1	....	1	2	....	1	....	2	....	....
	Females.	38	33	3	1	....	....	1	22	7	6	1	1	....	....
Drunkenness and non-support	Totals...	46	38	2	3	3	....	....	21	12	6	3	1	1	....
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	46	38	2	3	3	....	....	21	12	6	3	1	1	....
Fraud	Totals...	8	6	....	....	2	....	....	7	1	....	....	....	....	....
	Males...	5	3	....	....	2	....	....	4	1	....	....	....	....	....
	Females.	3	3	....	....	....	....	....	3	....	....	....	....	....	....
Fraud and duress	Totals...	1	1	....	....	....	....	....	....	1	....	....	....	....	....
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	1	1	....	....	....	....	....	....	1	....	....	....	....	....
Fraud and unlawful marria e	Totals...	1	1	....	....	....	....	....	1	....	....	....	....	....	....
	Males...	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females.	1	1	....	....	....	....	....	1	....	....	....	....	....	....

Digitized by Google

the year 1908, showing place of marriage, number of children in family and duration of before divorce.

children in family.						Duration of marriage before divorce.																
7.	8.	9.	10.	11.	Unknown.	Under one year.	1.	2.	3.	4.	Under five years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	Unknown.
													1									
													1									
							1	3	2	4	10	8	6	2	4	2						
							1	3	2	4	10	8	6	2	4	2						
							1				1											
							1				1											
													1									
													1									
										1	1											
										1	1											
													1	1								
														1								
													1									
1	2		1			9	42	30	33	35	149	114	55	25	15	11	5	1				3
1	2		1			9	42	30	33	35	149	114	55	25	15	11	5	1				3
3			1			1	2	30	59	54	146	150	87	60	33	23	16	5	5	3	1	3
							1	13	35	35	84	87	37	24	18	9	7	1	3		1	2
3			1			1	1	17	24	19	62	63	50	36	15	14	9	4	2	3		1
														1	1	1	1					
														1	1	1	1					
								1			1	2										
								1			1	2										
												1										
												1										
2							2	10	6	12	30	38	20	13	9	8	2					
2							2	10	6	12	30	38	20	13	9	8	2					
1							4	4	2	1	11	7	10	2	7	3	2		1			
								2			2		1	1	1							
1							4	2	2	1	9	7	9	1	6	3	2		1			
1					1		1	2	6	4	13	16	8	4	4			1				
1					1		1	2	6	4	13	16	8	4	4			1				
						2	2	2			6	1	1									
						2	1	1			4		1									
							1	1			2	1										
						1					1											
						1					1											
													1									
													1									

Digitized by Google

Table III.—Concluded.—Causes of divorce in Michigan, by sex of complainant, during of marriage

Causes alleged in petitions for divorces granted in 1908.	Sex of complainant.	Complainants in divorces granted, 1908.	Place of marriage.						Number of						
			Michigan.	Ohio, Indiana and Wisconsin.	Other states.	Canada.	Other foreign countries.	Unknown.	0.	1.	2.	3.	4.	5.	6.
Illegal marriage	Totals	1				1			1						
	Males	1				1			1						
	Females														
Impotency	Totals	1	1						1						
	Males														
	Females	1	1						1						
Imprisonment	Totals	7	6	1					4	2					1
	Males														
	Females	7	6	1					4	2					1
Incompatibility	Totals	1	1						1						
	Males	1	1						1						
	Females														
Insanity	Totals	3	3						2		1				
	Males	2	2						1		1				
	Females	1	1						1						
Morphine habit	Totals	1	1						1						
	Males	1	1						1						
	Females														
Non-support	Totals	342	273	16	17	26	4	6	108	91	51	11	6		1
	Males														
	Females	342	273	16	17	26	4	6	108	91	51	11	6		1
Polygamy	Totals	1	1						1						
	Males														
	Females	1	1						1						

Digitized by Google

the year 1908, showing place of marriage, number of children in family and duration before divorce.

children in family.						Duration of marriage before divorce.																
7.	8.	9.	10.	11.	Unknown.	Under one year.	1.	2.	3.	4.	Under five years.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	Unknown.
						1					1											
						1					1											
													1									
													1									
							1	1	1		3	1	1		2							
							1	1	1		3	1	1		2							
															1							
															1							
						1					1				1							1
															1							
						1					1											1
													1									
													1									
	1				1	6	28	40	28	34	136	101	47	24	15	12	6	1				
	1				1	6	28	40	28	34	136	101	47	24	15	12	6	1				
										1	1											
										1	1											

Digitized by Google

Digitized by Google

INDEX.

ACCIDENTS: Page.
deaths from, 1908 57
APPENDICITIS:
deaths from, 1908 53
APOPLEXY:
deaths from, 1908 ..... 46, 48
BIRTHS:
registered in Michigan, 1867-1908 2
by counties, 1908 8
by counties, 1908, compared with 1907 10
by months and quarters, 1908 13
delayed returns of, by months, 1908 14
summary of enumeration of, 1908 12
returns by months, 1898-1908 14
parent nativity of, 1908 15
parent nativity of, 1899-1908 15
parent nativity of, 1871-1908 16
by months, counties and sex, 1908 69
by nativity of parents, county and sex, 1908 74
See also TWINS, and ILLEGITIMATES
BIRTH RATES:
Michigan, 1867-1908 (stillbirths included) 2
Michigan compared with other states and countries, 1893-1908 5
by counties, 1908 8
BRIGHT'S DISEASE:
deaths from, 1908 56
BRONCHITIS:
deaths from, 1908 51
BRONCHOPNEUMONIA:
deaths from, 1908 51
CANCER:
deaths from, 1908 ..... 45, 46
CAUSES OF DEATH:
for State and geographical sections by months and ages, 1908 28
discussion of 38
by months, ages, and sex, 1908 98
by counties, 1908 116
See also individual causes, as CANCER, PNEUMONIA, etc.
CAUSES OF DIVORCE:
by sex, percentage of complainants, 1908 65
by sex of complainants, place of marriage, children in family and duration of marriage, 1908 168
CEREBRAL CONGESTION AND HEMORRHAGE (Apoplexy):
deaths from, 1908 ..... 46, 48
CONSUMPTION:
deaths from, 1908 ..... 44, 45
CONVULSIONS:
deaths from, 1908 ..... 46, 49
CROUP:
deaths from, 1908 ..... 42, 43
DEATHS:
registered in Michigan, 1867-1908 2
by counties, 1908 8
by counties, 1908, compared with 1907 10
by months and quarters, 1908 18
delayed returns of, by months, 1908 18
by sex, 1890-1908 19
by sex and age, 1908 20
by age periods and sex, 1908, compared with population 21
DEATHS—Continued. Page
in cities of Michigan, 1908 23
statistically classified by the International system, 1908 25
by months, counties and sex, 1908 83
by ages, counties and sex, 1908 88
See also DEATH RATES, AND CAUSES OF DEATH:
DEATH RATES:
Michigan, 1867-1908 (stillbirths not included) 2
compared with other states and countries, 1894-1908 5
by counties, 1908 8
monthly, based on prompt returns 18
by sex, 1890-1908 (stillbirths excluded 19
by sex and age periods, 1908 20
cities of Michigan, 1908 23
of causes of death statistically classified by the International system, 1908 25
DIARRHEA AND ENTERITIS:
deaths from, 1908 ..... 54, 55
DIPHTHERIA AND CROUP:
deaths from, 1908 ..... 42, 43
DIVORCES:
by counties, 1908 8
by counties 1908, compared with 1907 10
children affected thereby, 1908 63
duration of marriage prior to 64, 158, 168
causes of divorces granted, 1908 ..... 65, 168
percentage of complainants from each cause, by sex, 1908 65
by counties, 1908 ..... 156, 158
number filed during year, 1908 156
pending at beginning and end of year 1908 156
contested, 1908 156
granted, 1908 156
refused, 1908 156
withdrawn or otherwise disposed of, 1908 156
by counties and sex of complainant, 1908 158
See also CAUSES OF DIVORCE.
DIVORCE RATES:
by counties, 1908 8
See also CAUSES OF DIVORCE.
ENTERITIS:
deaths from, 1908 ..... 54, 55
GEOGRAPHICAL SECTIONS.
deaths returned by, 1908 28
HEART DISEASE—ORGANIC:
deaths from, 1908 ..... 49, 50
HOMICIDE:
deaths from, 1908 56
ILLEGITIMATES:
by counties, 1908 79
by months and sex, 1908 80
INFLUENZA:
deaths from, 1908 ..... 43, 44
LIVER DISEASES:
Deaths from, 1908 53
MARRIAGES:
registered in Michigan, 1867-1908 3
by counties, 1908 8
by counties, 1908 compared with 1907 10

Digitized by Google

MARRIAGES—Continued: Page
summary of registration, 1908..... 58
by months, 1899-1908..... 59
by months and quarters, 1908..... 60
nativity of persons married, 1908.... 60, 148
nativity of persons married, 1871-1908 61
ages of males married, 1871-1908.... 62
ages of females married, 1871-1908... 62
by months and counties, 1908..... 141
persons married, by ages, counties and sex, 1908..... 143
persons married, by nativity and counties 1908..... 148
by ages of males and females, 1908... 150
probate marriages, by ages of males and females married, 1908..... 151
MARRIAGE RATES:
Michigan, 1867-1908..... 2
Michigan compared with other states and countries, 1894-1908..... 3
by counties, 1908..... 8
MEASLES:
deaths from, 1908..... 40, 41
MENINGITIS:
deaths from, 1908..... 47
PARALYSIS:
deaths from, 1908..... 46, 48
PERITONITIS:
deaths from, 1908..... 53
PNEUMONIA:
deaths from, 1908..... 52
POPULATION: Page
estimated, 1867-1907..... 2
returns compared with, by counties.. 8
SCARLET FEVER:
deaths from, 1908..... 41
SMALLPOX:
deaths from, 1908..... 39, 40
STILLBIRTHS:
registered, 1908..... 17
by counties, 1908..... 79
by months and sex, 1908..... 80
STOMACH DISEASES:
deaths from, 1908..... 53, 54
SUICIDE:
deaths from, 1908..... 56, 57
TUBERCULOSIS:
deaths from, 1908..... 44, 45
TWINS:
by counties, 1908..... 79
by months and sex, 1908..... 80
TYPHOID FEVER:
deaths from, 1908..... 39
VITAL STATISTICS:
returned for 1908..... 1
returns by months, 1908..... 2
comparison of 1908 with previous years of registration in Michigan.. 3
compared with other states and countries, 1908..... 6
by counties, 1908, compared with 1907 10
WHOOPING COUGH:
deaths from, 1908..... 42

Digitized by Google

Pa
5
41
34, 49
17
79
80
53, 54
56, 57
4, 45
79
80
39
1
2
3
6
10
42

Digitized by Google

Digitized by Google

Digitized by Google

Digitized by Google